

# County of San Diego

#### **DEPARTMENT OF PUBLIC WORKS**

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August 20, 2008

# CEQA Initial Study - Environmental Checklist Form (Based on the State CEQA Guidelines, Appendix G Rev. 10/04)

1. Title; Project Number(s); Environmental Log Number:

Sweetwater Reservoir Loop Trail, COFD-00251

 Lead agency name and address: County of San Diego Department of Public Works 5469 Kearny Villa Road, Suite 305 San Diego, CA 92123

- 3. a. Contact: Esther Daigneault, Environmental Planning Manager
  - b. Phone number: (858) 874-4107
  - c. E-mail: esther.daigneault@sdcounty.ca.gov.
- Project location:

The project is located adjacent to the Sweetwater Reservoir near the community of Spring Valley in the unincorporated area of San Diego County (*Figure 1* and *Figure 2*).

Thomas Brothers Coordinates: Page 1291: A4, A5, A6, B4, B7, C4, D3, E2, F3, G2, H2; Page 1310: J1; Page 1311: A1

5. Project Applicant name and address: County of San Diego Department of Parks and Recreation 9150 Chesapeake Drive, Suite 200 San Diego, CA 92123

6. General Plan Designation

Community Plan: N/A
Land Use Designation: N/A
Density: N/A

7. Zoning

Use Regulation: N/A
Minimum Lot Size: N/A
Special Area Regulation: N/A

8. Description of project:

The proposed project will establish and formalize the northern portion of the Sweetwater Reservoir Loop Trail. The proposed project will connect to the existing southern portion of the trail so as to eventually allow for non-motorized recreational opportunities completely around the Sweetwater Reservoir, a 14.1-mile loop trail. The proposed project (northern loop trail proper) is approximately 5.3 miles in length. In addition, a trail segment (Segment 1a) will be constructed along an existing dirt path adjacent to the Bonita Golf Course between Conduit Road and the Bonita Road Bridge, connecting the entire loop trail (northern and southern portions) to an existing trail system to the west. Segment 1a is approximately 0.64 miles in length. This document only addresses the segments that will be constructed by the County.

The proposed northern trail to be constructed by the County is divided into eight trail segments (Segments 1, 1a, and 3 through 8), including drainage crossings over several named and unnamed drainages and two trail staging areas. *Figure* 3 identifies the location of each of the trail segments and the two staging areas. The remaining segments of the northern trail not proposed by the County include Segment 2, which will be the responsibility of Caltrans as part of mitigation for the SR 125 Extension Project; Segment 9, which is expected to be constructed by Pointe Development; and Segment 10, which would be constructed by the United States Fish and Wildlife Service (USFWS) San Diego National Wildlife Refuge. Construction of these segments is not analyzed as part of the proposed project.

The two staging areas will serve as a trailhead and/or rest area providing hikers and equestrian riders access to both the northern and southern trail systems, as well as providing users with parking, bathroom and drinking water facilities, trash receptacles, equestrian hitching posts, and benches. Staging Area 1 is an existing facility located within the County's Sweetwater Summit Park. Staging Area 1 is equipped with all the necessary amenities and can be accessed at the end of Red Hill Trail. Staging Area 2 is currently a vacant lot located near the intersection of Lakeview Avenue and Quarry Road. Completion of Staging Area 2 will require installation of the above mentioned facilities.

The northern portions of the Sweetwater Reservoir Loop Trail will be improved and maintained in accordance with the County of San Diego Trail Design Guidelines. Trail routes were selected to avoid and minimize potential impacts to streambeds and sensitive vegetation to the maximum extent practicable. The proposed project will establish trails along existing disturbed trails (non-designated), paths and roadways wherever feasible. In general, the width of the trail tread will vary between 8 and 12 feet with a minimum 10-foot overhead clearance. The width of the trail will be no more than four feet wide in areas adjacent to sensitive biological habitats including wetland habitats. The trail surface will be removed of rocks, debris, and roots. Acquisition of trail easements over private property will be required to implement the project.

Trail markers, intermediate markers, and lodge pole fencing will be used where necessary to encourage users to stay on the trails and to direct users to avoid sensitive biological areas. Pressure treated wood with waterproof coating will be used for lodge pole posts and rails. Trail markers will be placed at approximately one-fourth mile increments along the route. Trail markers will be brown, flexible reinforced composite-fiberglass. The markers will be approximately 72 inches high, 3 ¾ inches wide, 1/8 inch thick and weigh approximately 2 ½ pounds. Trail lighting is not permitted within wildlife habitat except where essential for roadways, facility use and safety. If such lighting is necessary, lighting within wildlife habitat or along its edges will be shielded and directed away from wildlife habitat and limited to low pressure sodium sources.

Physical and/or visual barriers such as natural vegetation, topography, limited fencing, and signage will be incorporated into project design to protect sensitive habitats, sensitive species, and wetland habitats by directing trail users to designated trails. The use of motorized vehicles on the trails is prohibited, except for wheelchairs, maintenance and emergency vehicles. Foot traffic, equestrian

activity, and bicycling will be restricted to designated trails only. In addition, dogs must be leashed at all times and restricted to designated trails. The release or transplantation of non-native animals, fish, or vegetation, or the collection of plants, plant material, wildlife, or historic artifacts will not be allowed. In addition, hunting of animals or waterfowl along the trail segments or adjacent to the reservoir is prohibited.

During construction, temporary fencing will be installed to identify construction and staging area limits. All construction activities, including equipment storage, equipment cleaning, and stockpiling will occur within the identified construction areas. All storage areas will be protected with the use of fiber rolls and/or silt fences. All fencing will be inspected prior to the start of construction and monitored during construction by a qualified biologist to avoid unauthorized impacts. Temporary watering of the construction site will be conducted on an asneeded basis to prevent potential dust damage to sensitive vegetation and habitat.

As part of the proposed project, an erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps. In addition, Best Management Practices (BMPs) will be implemented during construction activities to avoid water quality impacts, polluted runoff, erosion, and sedimentation. BMPs include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls will be used to minimize surface transport of sediments. The construction contractor will be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP). Implementation of BMPs as stated in contract documents and the SWPPP would reduce water quality impacts to below a level of significance.

The proposed project incorporates site design considerations intended to reduce potential pollutants in runoff and minimize impacts to water quality. At all locations, the proposed trail will be set back at least 100 feet from the high water level. Horses will be prohibited from entering the reservoir or any stream within 200 feet of the reservoir shoreline. Chain-link fencing will be installed along the perimeter of the trail to prevent entry to the reservoir. Daily inspections may be necessary before, during, and after rain or storm events to ensure the integrity of the trail system. Manure, trash, litter and debris will be removed in a timely manner prior to a rain or storm event. If necessary, trails will be closed during severe rain events. Temporary signage will be installed at trail heads, staging

areas, and/or at the adjacent Sweetwater Summit Regional Park during inclement weather advising users of trail closures.

Proposed *Rules and Regulations* for trail use include a requirement that pet owners must pick up after pets and dispose of any wastes offsite or in proper locations identified onsite. Signage will be posted in designated areas as appropriate. Pet waste bags will be provided for owners at staging areas. Prior to opening the trail to public use, the County will contract with a licensed waste disposal facility to establish a schedule for waste removal. Horse manure will be removed from the trail on a weekly basis by County-contracted personnel. Storage containers will not be necessary as manure will be removed offsite immediately. The County may also investigate the use of manure in off-site composing operations as a less expensive alternative to the removal of waste to a disposal facility.

Trail inspection and necessary maintenance will be performed by County personnel or volunteers on an as-needed basis to pick up trash and debris, smooth the trail, repair fences, and trip vegetation. Trail brochures and signage, indicating the reservoir is a source of domestic water supply and should not be polluted, will be provided to educate the public and discourage any type of pollution. Location and distances to staging area trash and restroom facilities, commercial areas, and bus stops will be provided on signs and/or brochures.

In areas along the trail system where the trail tread is between 10 feet and 25 feet from the Urban Runoff Diversion System (URDS), a 12-inch gravel gutter and vegetated buffer strip with a slope less than 15% toward the reservoir, will be installed along the shoreward edge of the trail. The buffer strip will trap sediment, nutrients, trash, and organics, and prevent these materials from migrating toward the reservoir or entering the URDS. Runoff will flow into the gravel gutter and sheet flow onto the vegetated buffer strip. In areas where the trail is less than 10 feet from the URDS, a 12-inch gravel gutter and vegetated strip as stated above will apply with the addition of an impervious landscaping edge as close to the URDS as possible. The landscape edging is designed to prevent runoff from entering the URDS until it has been properly treated via the vegetated buffer strip. Maintenance of the vegetated buffer strips would consist of mowing, irrigation if necessary, weeding, and litter removal. Maintenance of the gravel gutter will consist of an annual inspection and removal of sediment if necessary.

The trail will be designed to ensure runoff sheet flows toward proposed BMPs (i.e. vegetated buffer strip and gravel gutter) to prevent rills and erosion. The trail will be periodically re-graded to prevent rills from forming, to promote sheet flow, and to reduce erosion. The re-grading will be on an as-needed basis, but a minimum of one time per year at the end of the rainy season. The effective combination of site control, source control, and treatment control Best Management Practices (BMPs) described above is intended to protect the quality of water in the reservoir.

# Segment 1

Segment 1 begins at the convergence of Sweetwater Road and Quarry Road and is approximately 2,900 feet long. From the trailhead, the trail moves south for approximately 1,050 feet, turns east for approximately 400 feet, and turns north again, following the western boundary of the Bonita Golf Course for approximately 1,450 feet where it connects to Segment 4. The segment will be located within a trail easement varying in width from 12 feet to 20 feet, with the trail tread varying between 4 feet (adjacent to sensitive habitat) and 10 feet.

Drainage improvements required for this segment include installation of 18" and 24" corrugated metal pipe (CMP) culverts that will convey drainage from the trail and adjacent properties into a proposed 18" reinforced concrete pipe (RCP) stormdrain. The stormdrain will replace an existing wooden "trough" in order to properly convey stormwater during rain events and runoff from Sweetwater Road.

Caltrans will construct a bridge over the Sweetwater River within Segment 1 as part of the mitigation requirements for the SR 125 Extension Project.

#### Segment 1a

Segment 1a begins east of the Bonita Road Bridge and continues east along an existing trail at the southern boundary of the Bonita Golf Course to Conduit Road. This segment is approximately 3,379 feet in length and links the northern and southern portions of the loop trail to existing trails (formal and informal) to the west. The trail tread for this segment will be 8 feet to 10 feet wide within a 24-foot wide trail easement.

Drainage improvements required for this segment include installation of an 8" RCP culvert under the trail, associated head wall, catch basin and rip rap energy dissipator in order to convey nuisance flow from the adjacent homes to the south.

#### Segment 2

Segment 2 begins at the terminus of Segment 1 and ends at Segment 3. This segment is approximately 550 feet in length and. Segment 2 will be constructed by Caltrans as part of the mitigation requirements for the SR 125 Extension Project; therefore, it is not analyzed as part of this project.

#### Segment 3

Segment 3 begins at Quarry Road approximately one mile northeast of the intersection of Quarry Road and Sweetwater Road and is approximately 220 feet long. This segment consists largely of a bridge over Spring Valley Creek that will connect Segment 2 and Segment 5. The pedestrian/equestrian bridge will be approximately 10 feet wide by 200 feet long. The bridge will be capable of carrying multiple equestrian riders. The bridge will be connected to Segment 5 via a short trail segment 10 feet wide and 20 feet long. A profile of the bridge for this segment is shown in *Figure 4*.

#### Segment 4

Segment 4 begins at the terminus of Segment 2 and ends at the beginning of Segment 5 (approximately 60 feet southwest of Segment 3) and is approximately 5,600 feet in length. Caltrans will construct the first 550 feet of this segment as part of the mitigation requirements for the SR 125 Extension Project. Along a portion of Segment 4 closest to the Sweetwater Dam, the trail will utilize the existing San Diego County Water Authority (SDCWA) easement on Sweetwater Authority property that is currently used as a maintenance road. For safety reasons, the trail tread in this area will be widened to 16 feet with a 28-foot turnout to accommodate trail users, Sweetwater Authority vehicles, and SDCWA maintenance vehicles. Signs will be posted along the trail alerting users of possible truck traffic in this area. Convex mirrors may be added if warranted.

Near the southern portion of this segment, an 18" RCP drainage pipe, wing walls at the inlet and outlet, as well as a rip rap energy dissipator will be constructed to

convey water in this section under the trail. The trail itself will be constructed as a raised causeway approximately 650 feet in length.

#### Segment 5

Segment 5 begins at the terminus of Segment 4 (approximately 50 feet southwest of the terminus of Segment 3) and is approximately 1,640 feet in length. The trail will be 10 feet wide within a 20-foot wide trail easement.

Drainage facilities to be constructed as part of this segment include an 18" RCP culvert under the trail, associated wing walls, and a drainage ditch along the south side of the trail located approximately 300 feet east of the intersection of Segment 3 and Segment 5. The drainage ditch will convey water on the south side of the trail toward the new culvert.

#### Segment 6

Segment 6 will begin on the east side of Lakeview Avenue and travel in an eastwardly direction for approximately 4,121 feet along an existing trail. Segment 6 will consist of a 10-foot wide trail within a 20-foot wide trail easement.

Drainage improvements will consist of installation of two crossings traversing areas of disturbed freshwater marsh. The crossings will require the installation of culverts under the trail to allow for proper stormwater conveyance.

#### Segment 7

Segment 7 begins at the northeastern terminus of Segment 6. It runs parallel to the existing residential development and intersects with Sweetwater Authority property at the beginning of Segment 8. Segment 7 will consist of a 10-foot wide trail within a 20-foot wide trail easement.

Drainage improvements will include installation of one crossing. The crossing will require installation of a culvert under the trail for proper water conveyance.

#### Segment 8

Segment 8 begins at the terminus of Segment 7. The entire segment is located on lands owned by the Sweetwater Authority. The segment follows the

northeastern boundary of the Sweetwater Reservoir and parallels Jamacha Road for approximately 5,026 feet along an existing trail and terminates at the Sweetwater Authority's eastern property line with the Pointe Development. The trail width will be 8 to 10 feet wide within a 20-foot wide easement. The trail tread along a portion of the segment may be reduced to 4 feet to accommodate the Sweetwater Authority's fence.

The existing chain-link fence along the Sweetwater Authority property will be removed and set back from its existing location. The trail will continue along Sweetwater Authority property. A lodge pole fence system will be constructed on the opposite side of the trail to serve as a directional guide for users. The fence will separate trail users from construction and maintenance traffic, as well as the Urban Runoff Diversion System (URDS) and Sweetwater Reservoir.

Drainage improvements will consist of installation/improvement of two crossings across areas of disturbed freshwater marsh. One crossing will require installation of a culvert under the trail to allow for proper stormwater conveyance. The second crossing will be the extension of an existing culvert.

#### Segment 9

Segment 9 will be constructed by the Pointe Development; therefore, it is not analyzed as part of this project.

#### Segment 10

Segment 10 will be constructed by the United States Fish and Wildlife Service (USFWS) San Diego National Wildlife Refuge; therefore, it is not analyzed as part of this project. Segment 10 would ultimately connect to the existing trail on the south side of the reservoir (southern portion) and terminate at the Sweetwater Summit Regional Park, completing the loop around the Sweetwater Reservoir.

#### Staging Area 1

Staging Area 1 is an existing facility located within the County's Sweetwater Summit Regional Park and accessed at the end of Red Hill Trail. The staging area is equipped with all the necessary amenities.

# **Staging Area 2**

Staging Area 2 is currently a vacant lot located near the intersection of Lakeview Avenue and Quarry Road. Staging Area 2 will require the installation of facilities such as parking, bathroom and drinking water facilities, trash receptacles, equestrian hitching posts, and benches.

9. Surrounding land uses and setting:

The Sweetwater Reservoir Loop Trail Project is surrounded by developed residential uses to the north and open space parks to the south. The southwest area of the loop trail system travels through Sweetwater Regional County Park, owned and maintained by the County. The Sweetwater River is located to the east and west of the reservoir, and Spring Valley Creek is located on the northwest side of the reservoir. Segment 1a is situated within recreation and residential uses.

The northern segments of the loop trail transverse a variety of vegetation communities. Vegetation/habitat types include: coastal sage scrub, non-native grassland, eucalyptus woodland, maritime succulent scrub, freshwater marsh, southern willow scrub, and mule fat scrub.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

| Permit Type/Action                       | <u>Agency</u>                                |  |  |
|--|--|--|--|
| Habitat Loss Permit                      | County of San Diego                          |  |  |
| State Highway Encroachment Permit        | Caltrans                                     |  |  |
| 401 Permit - Water Quality Certification | Regional Water Quality Control Board (RWQCB) |  |  |
| 404 Permit – Dredge and Fill             | US Army Corps of Engineers (ACOE)            |  |  |
| 1602 – Streambed Alteration Agreement    | CA Department of Fish and Game               |  |  |
|  | (CDFG)                                       |  |  |
| General Construction Storm Water         | RWQCB  |  |  |
| Permit                                   |  |  |  |
| Joint Use Agreement                      | San Diego County Water Authority             |  |  |
| Irrevocable Easement                     | Sweetwater Authority                         |  |  |
| Domestic Water Supply Permit             | CA Dept. of Public Health (CDPH)             |  |  |
| Amendment                                |  |  |  |

Esther Daigneault

Printed Name

Environmental Planning Manager

Title

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:** The environmental factors

| impac                                     | ct that is a "Potentially  |  | pject and involve at least one<br>"Less Than Significant With<br>he following pages.   |
|---|--|--|--|
| ☑ Bic<br>□ Ha<br>□ Mir<br>□ Pu<br>☑ Utili | sthetics blogical Resources zards & Haz. Materials neral Resources blic Services ities & Service stems | <ul> <li>□ Agricultural Resources</li> <li>☑ Cultural Resources</li> <li>□ Hydrology &amp; Water Quali</li> <li>□ Noise</li> <li>☑ Recreation</li> <li>☑ Mandatory Findings of States</li> </ul> | ☐ Population & Housing ☐ Transportation/Traffic  |
| DETE                                      | ERMINATION: (To be co  | mpleted by the Lead Agenc  | y)   |
| On th                                     | e basis of this initial eval   | uation:  |  |
|   | that the proposed pro  | ATA THE T  | f Planning and Land Use finds a significant effect on the I be prepared.   |
|   | that although the project have been  | posed project could have<br>not be a significant effect in   | f Planning and Land Use finds<br>a significant effect on the<br>this case because revisions in<br>by the project proponent. A<br>epared. |
|   | that the proposed proje  | -  | f Planning and Land Use finds effect on the environment, and ed.   |
|   |  | Augus  | st 20, 2008  |
| Signa                                     | ture   | Date   |  |

#### INSTRUCTIONS ON EVALUATION OF ENVIRONMENTAL IMPACTS

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, Less Than Significant With Mitigation Incorporated, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4. "Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

- c) Mitigation Measures. For effects that are "Less Than Significant With Mitigation Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. The explanation of each issue should identify:
  - a) The significance criteria or threshold, if any, used to evaluate each question; and
  - b) The mitigation measure identified, if any, to reduce the impact to less than significance

August 20, 2008

| <u>l.</u><br>a) | <b>AESTHETICS</b> Would the project:<br>Have a substantial adverse effect on a s        | cenic | vista?                                 |
|-----------------|---|-------|--|
|                 | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |       | Less than Significant Impact No Impact |

#### Discussion/Explanation:

A vista is a view from a particular location or composite views along a roadway or trail. Scenic vistas often refer to views of natural lands, but may also be compositions of natural and developed areas, or even entirely of developed and unnatural areas, such as a scenic vista of a rural town and surrounding agricultural lands. What is scenic to one person may not be scenic to another, so the assessment of what constitutes a scenic vista must consider the perceptions of a variety of viewer groups.

The items that can be seen within a vista are visual resources. Adverse impacts to individual visual resources or the addition of structures or developed areas may or may not adversely affect the vista. Determining the level of impact to a scenic vista requires analyzing the changes to the vista as a whole and also to individual visual resources.

**No Impact:** Scenic vistas are singular vantage points that offer unobstructed views of valued viewsheds, including areas designated as official scenic vistas along major highways or County designated visual resources. Based on a site visit completed by ESU staff, the proposed project is not located near or visible from a scenic vista and will not change the composition of an existing scenic vista. The project site is located north of the Sweetwater Reservoir. The proposed project will not have any substantial adverse effect on a scenic vista.

The proposed project viewshed and past, present and future projects within that viewshed were evaluated to determine cumulative effects. (Refer to XVII. Mandatory Findings of Significance for a complete list of the projects considered.) Those projects listed in Section XVII are located within the scenic vista's viewshed and will not contribute to a cumulative impact because the project and other nearby projects do not involve substantial modification of the existing landforms or the blockage of views. Therefore, the project will not result in adverse project or cumulative impacts on a scenic vista.

August 20, 2008

| •   | Substantially damage scenic resources outcroppings, and historic buildings with   |  |  |
|---|---|--|--|
|   | Potentially Significant Impact  |  | Less than Significant Impact   |
|   | Less Than Significant With Mitigation Incorporated  | V  | No Impact  |
| Discus  | sion/Explanation:   |  |  |
| Californ<br>Scenic<br>the lan<br>scenic<br>bounda             | scenic highways refer to those highwania Department of Transportation (Ca Highway Program). Generally, the area of adjacent to and visible from the veh highway is usually identified using a mary is selected when the view extends to rextends to the visual limits of the lands          | Itrans) a defin icular notoris the d                     | as scenic (Caltrans - California<br>ed within a State scenic highway is<br>right-of-way. The dimension of a<br>t's line of vision, but a reasonable<br>istant horizon. The scenic highway  |
| located<br>not dar<br>is the e<br>Trail ar<br>west.<br>Reserv | near or visible from the composite view mage or remove visual resources within establishment and formalization of the rend a trail segment that links the Sweet The project site is located along the roir and is not visible from a state scenic my substantial adverse effect on a scenic | wshed<br>a State<br>northe<br>water<br>norther<br>c high | of a State scenic highway and will<br>te scenic highway. The project site<br>rn portion of the Sweetwater Loop<br>Loop Trail to existing trails to the<br>ern boundaries of the Sweetwater<br>way. The proposed project will not |
| -   | Substantially degrade the existing visua surroundings?  | al cha   | racter or quality of the site and its  |
|   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |  | Less than Significant Impact No Impact   |
| Discus  | sion/Explanation:   |  |  |

**Less Than Significant Impact:** Visual character is the objective composition of the visible landscape within a viewshed. Visual character is based on the organization of the pattern elements line, form, color, and texture. Visual character is commonly discussed in terms of dominance, scale, diversity and continuity. Visual quality is the

viewer's perception of the visual environment and varies based on exposure, sensitivity and expectation of the viewers.

The existing visual character and quality of the project site and surroundings can be characterized as developed/residential uses to the north, open space parks to the south, and recreational uses to the west. The project is compatible with the existing visual environment's visual character and quality. The construction of the northern portion will provide a continuous non-motorized recreational loop around the Sweetwater Reservoir that links to existing trails to the west. The viewshed contributes to the appeal of the trail system and will not be changed with the establishment of a trail at this site.

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The project proposes to utilize the existing trail tread to the fullest extent practicable. The trail is designed to sheet flow runoff toward the proposed BMPs (ie. vegetated buffer strip and gravel gutter) to prevent rills and erosion. Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. No large structures are proposed that would interfere with the visual character of the site. Impacts on the existing visual quality and character of the project site will be less than significant.

The entire existing viewshed and a list of past, present and future projects within that viewshed were evaluated to determine potential cumulative impacts to visual quality and character. (Refer to XVII. Mandatory Findings of Significance for a complete list of the projects considered.) Visual impacts associated with the proposed project and other projects within the cumulative study area are expected to be temporary impacts related to construction activities. No permanent damage to scenic resources is expected. Once construction is complete, all equipment and related construction materials will be removed and the visual scene would return to its current state. The temporary impacts would affect few viewers, and impacts to visual quality would be less than significant.

The project proposes the establishment of a trail along the banks of the Sweetwater Reservoir. The existing viewshed contributes to the beauty of the trail system. The project does not propose any large scale grading, significant alteration of an existing landform, or development on steep slopes. Visual impacts from the proposed project and other projects in the cumulative study area are expected to result in an improved visual quality and character of the area after project completion. The combined impacts on visual character or quality of the proposed project and the projects within the cumulative study area would not be considered significant.

August 20, 2008

| d) | Create a new source of substantial light day or nighttime views in the area? | ht or                   | glare, which would adversely affect |
|----|--|-------------------------|-------------------------------------|
|    | Potentially Significant Impact   |                         | Less than Significant Impact        |
|    | Less Than Significant With Mitigation Incorporated                           | $\overline{\checkmark}$ | No Impact                           |

Discussion/Explanation:

**Less Than Significant Impact:** The proposed project is located within Zone B as identified by the San Diego County Light Pollution Code, approximately 36 miles from the Mt. Laguna Observatory. The project does not proposed any lighting; however if lighting is proposed in the future, it will conform to the Light Pollution Code (Section 59.101-59.115), including the Zone B lamp type and shielding requirements per fixture and hours of operation limitations for outdoor lighting and searchlights; therefore, project implementation is not expected to adversely affect nighttime views or astronomical observations. Impacts will be less than significant.

The project will not contribute to significant cumulative impacts on day or nighttime views because the project will conform to the Light Pollution Code. The Code was developed by the San Diego County Department of Planning and Land Use and Department of Public Works in cooperation with lighting engineers, astronomers, land use planners from San Diego Gas and Electric, Palomar and Mount Laguna observatories, and local community planning and sponsor groups to effectively address and minimize the impact of new sources light pollution on nighttime views. The standards in the Code are the result of this collaborative effort and establish an acceptable level for new lighting. Compliance with the Code is required prior to issuance of any building permit for any project. Mandatory compliance for all new building permits ensures that this project, in combination with all past, present and future projects in the area, will not contribute to a cumulatively considerable impact. Compliance with the Code ensures that the project will not create a significant new source of substantial light or glare which would adversely affect daytime or nighttime views in the area, on a project or cumulative level.

In addition to the requirements outlined in the Light Pollution Code, the proposed project will control outdoor lighting and sources of glare as follows:

1. The project will not install outdoor lighting that directly illuminates neighboring properties.

- 2. The project will not install outdoor lighting that would cast a direct beam angle toward a potential observer, such as a motorist, cyclist or pedestrian.
- 3. The project will not install outdoor lighting for vertical surfaces such as buildings, landscaping, or signs in a manner that would result in useful light or spill light being cast beyond the boundaries of the intended area to be lit.
- 4. The project will not install any highly reflective surfaces such as glare-producing glass or high-gloss surface color that will be visible along roadways, pedestrian walkways, or in the line of sight of adjacent properties.

# II. AGRICULTURAL RESOURCES -- Would the project:

| a) | Convert Prime Farmland, Unique Farmla<br>Importance (Important Farmland), as sho<br>the Farmland Mapping and Monitoring<br>Agency, or other agricultural resources, to | own<br>Prog | on the maps prepared pursuant to gram of the California Resources |
|----|--|-------------|---|
|    | Potentially Significant Impact Less Than Significant With Mitigation Incorporated  | <b>₫</b>    | Less than Significant Impact No Impact                            |

Discussion/Explanation:

Less Than Significant Impact: According to the California Department of Conservation Farmland Mapping and Monitoring Program (2004), the project site is not located within an area designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. A portion of the project site (Segment 8) includes lands designated as Farmland of Local Importance, however. Based on a site visit and a review of historic aerial photography, there is no evidence of agricultural use on the project site since 1997. Due to the lack of historic agricultural use at the project site, the site does not meet the definition of an agricultural resource and no potentially significant project or cumulative level conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide or Local Importance to a non-agricultural use will occur as a result of this project.

| b)          | Conflict with existing zoning for agricultu   | ıral us                    | e, or a Williamson Act contract?  |
|-------------|---|----------------------------|---|
|             | Potentially Significant Impact<br>Less Than Significant With Mitigation   |                            | Less than Significant Impact No Impact  |
| _           | Incorporated  | _                          | The impact  |
| Discus      | ssion/Explanation:  |                            |   |
| The project | <b>spact:</b> Portions of the project site are zoposed project will not result in a conflict sear recreational trail is a permitted used to site it site is a permitted used to site it with existing zoning for agricultural used. | ct in z<br>in A7<br>Act Co | oning for agricultural use, however,<br>70 and S80 zones. Additionally, the<br>ontract. Therefore, there will be no |
| c)          | Involve other changes in the existing er nature, could result in conversion of I resources, to non-agricultural use?  |                            |   |
|             | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |                            | Less than Significant Impact No Impact  |

Discussion/Explanation:

No Impact: The surrounding area within a 1-mile radius of the project site has land designated for agricultural uses. The proposed project will not, however, result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to a non-agricultural use. The project site does not contain any agricultural operations; therefore, the project will not restrict or interfere with existing operations. The proposed project includes establishing and formalizing the northern portion of the Sweetwater Reservoir Loop Trail, connecting the existing southern portion of the trail so as to eventually allow for non-motorized, recreational opportunities around the entire Sweetwater Reservoir. The proposed recreational trail would not result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to a non-agricultural use or result in a cumulative considerable impact to agricultural resources.

| III. AIR QUALITY Where available, the significance criteria established by the   |  |  |  |  |
|--|--|--|--|--|
| applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:  |  |  |  |  |
| Conflict with or obstruct implementation of the San Diego Regional Air Quality Strategy (RAQS) or applicable portions of the State Implementation Plan (SIP)?  |  |  |  |  |
| □ Potentially Significant Impact Less Than Significant With Mitigation Incorporated □ No Impact  |  |  |  |  |
| Discussion/Explanation:  |  |  |  |  |
| <b>No Impact:</b> The proposed project is located within the San Diego Air Basin and subject to the land use/growth assumptions and air pollution control measures incorporated into the Regional Air Quality Strategies (RAQS). Operation of the project will not result in an increase of criteria pollutant emissions compared to the existing uses of the subject area as previously anticipated by the RAQS. The project's impact on the regional air quality plan would be less than significant. The project will not emit toxic air contaminants as identified by the California Air Resources Board. The project will therefore not conflict or obstruct with the implementation of the RAQS nor the SIP. |  |  |  |  |
| <ul> <li>b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</li> <li>Potentially Significant Impact</li> <li>Less Than Significant With Mitigation</li> </ul>  |  |  |  |  |
| Incorporated  Discussion/Explanation:  |  |  |  |  |

Air quality impacts from land use projects are generally the result of emissions from motor vehicles and short-term construction-related activities. The San Diego County Land Use Environment Group (LUEG) has established guidelines for determining significance which incorporate the Air Pollution Control District's (SDAPCD) established screening-level criteria for all new source review (NSR) in APCD Rule 20.2. These screening-level criteria can be used as numeric methods to demonstrate that a project's

total emissions (e.g. stationary and fugitive emissions, as well as emissions from mobile

sources) would not result in a significant impact to air quality.

APCD does not have screening-level criteria for emissions of volatile organic compounds (VOCs); therefore, the use of the screening level for reactive organic compounds (ROC) from the CEQA Air Quality Handbook for the South Coast Air Quality Management District (SCAQMD) for the Coachella Valley (which are more appropriate for the San Diego Air Basin) are used. However, the eastern portions of the county have atmospheric conditions that are characteristic of the Southeast Desert Air Basin (SEDAB). SEDAB is not classified as an extreme non-attainment area for ozone and therefore has a less restrictive screening-level. Projects located in the eastern portions of the County can use the SEDAB screening-level threshold for VOCs.

Less Than Significant Impact: The proposed project will result in temporary air quality impacts from construction-related activities and vehicle emissions. Such activities could result in temporary emissions of PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, CO, and VOCs. Impacts from the proposed project would be reduced through standard construction measures to control airborne dust generation and excessive vehicle emissions. Grading operations associated with the construction of the project would be subject to County of San Diego Grading Ordinance, which requires the implementation of dust control measures. Emissions from the construction phase would be minimal and localized, resulting in pollutant emissions below the screening-level criteria established by SDAPCD Rule 20.2 and by the South Coast Air Quality Management District (SCAQMD) CEQA Air Quality Handbook section 6.2 and 6.3. Emissions from the construction phase would be minimal, localized and temporary resulting in PM<sub>10</sub> and VOC emissions below the screening-level criteria established by the LUEG guidelines for determining significance.

During construction and grading, incremental air pollutant emissions associated with the proposed project are not expected to violate any air quality standard or contribute substantially to any existing or projected air quality violation. Once construction is complete, the air quality environment at the project site is expected to be similar to existing conditions. As such, the project will not violate any air quality standard or contribute substantially to an existing or projected air quality violation.

| c) | Result in a cumulatively considerable which the project region is non-attainm ambient air quality standard (includi quantitative thresholds for ozone precur | nent u                  | under an applicable federal or state eleasing emissions which exceed |
|----|--|-------------------------|--|
|    | Potentially Significant Impact   | $\overline{\checkmark}$ | Less than Significant Impact   |
|    | Less Than Significant With Mitigation Incorporated   |                         | No Impact  |

# Discussion/Explanation:

San Diego County is presently in non-attainment for the 1-hour concentrations under the California Ambient Air Quality Standard (CAAQS) for Ozone (O<sub>3</sub>). San Diego County is also presently in non-attainment for the annual geometric mean and for the 24-hour concentrations of Particulate Matter less than or equal to 10 microns (PM<sub>10</sub>) under the CAAQS. O<sub>3</sub> is formed when volatile organic compounds (VOCs) and nitrogen oxides (NO<sub>x</sub>) react in the presence of sunlight. VOC sources include any source that burns fuels (e.g., gasoline, natural gas, wood, oil); solvents; petroleum processing and storage; and pesticides. Sources of PM<sub>10</sub> in both urban and rural areas include: motor vehicles, wood burning stoves and fireplaces, dust from construction, landfills, agriculture, wildfires, brush/waste burning, and industrial sources of windblown dust from open lands.

Less Than Significant Impact: A list of past, present and future projects within the surrounding area were evaluated and none of these projects are expected to emit significant amounts of criteria pollutants. (Refer to XVII. Mandatory Findings of Significance for a complete list of the projects considered.) During construction and grading, incremental air pollutant emissions associated with the proposed project and cumulative projects are not expected to violate any air quality standard or contribute substantially to any existing or projected air quality violation. Once construction of each project is complete, the air quality environment at each site is expected to be similar to existing conditions. The proposed project and other projects in the cumulative study area would not contribute to long-term cumulative impacts to air quality. Overall, the incremental impact of the proposed project, when combined with the impacts of other projects in the area, is not considered cumulatively considerable.

| d) | Expose sensitive receptors to substantial pollutant concentrations?                     |  |  |  |  |
|----|---|--|--|--|--|
|    | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |  | Less than Significant Impact No Impact |  |  |

#### Discussion/Explanation:

Air quality regulators typically define sensitive receptors as schools (Preschool-12<sup>th</sup> Grade), hospitals, resident care facilities, or day-care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes

in air quality. The County of San Diego also considers residences as sensitive receptors as they house children and the elderly.

**No Impact:** Based on site visits conducted by ESU Staff, sensitive receptors and point sources of toxic emissions have not been identified within a quarter-mile (the radius determined by the SCAQMD in which the dilution of pollutants is typically significant) of the proposed project. Furthermore, no point-source emissions of air pollutants (other than vehicle emissions) are associated with the project. As such, the project is not expected to expose sensitive populations to excessive levels of air pollutants.

| e)     | Create objectionable odors   | s affecting a substa | ntial number of people?                |
|--------|--|----------------------|--|
|        | Potentially Significant Im<br>Less Than Significant Wi<br>Incorporated | ' Allah              | Less than Significant Impact No Impact |
| Discus | sion/Explanation:  |                      |  |

Less Than Significant Impact: No potential sources of objectionable odors have been identified in association with the proposed project. The construction of the proposed project could generate fumes from the operation of construction equipment which may be considered objectionable by some people. Such exposures would be short-term and/or transient as any fumes are expected to occur during construction only. Impacts are expected to be less than significant.

# IV. BIOLOGICAL RESOURCES

An analysis of the biological resources in the project area and potential impacts to these resources is based on the County's Geographic Information System (GIS) records, the County's Comprehensive Matrix of Sensitive Species, site photos, site visits by the County's Environmental Services Unit (ESU) staff, and a Biological Resources Report prepared by Mooney Jones and Stokes (July 2008).

# Would the project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Discussion/Explanation:

Less than Significant with Mitigation Incorporated: Although the project site supports native biological habitat, the removal of this habitat will not result in substantial adverse effects with mitigation incorporated, either directly or through habitat modifications, to species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.

As described below, the proposed project would result in direct and indirect impacts to biological resources within and adjacent to the project area. Direct impacts would result as a result of habitat removal for widening of existing paths for the trail segments and drainage crossings. Indirect impacts to biological resources may result from construction-related activities (i.e. noise, dust); however, these potential indirect impacts will be minimized through trail design. Project design features include the use of signs, fencing where appropriate, and educational information to ensure trail users recognize the presence and sensitivity of biological resources adjacent to the proposed trail. In addition, trail segments for the proposed project will use existing dirt paths when possible. Trail routes were selected to avoid and minimize potential impacts to streambeds and sensitive vegetation to the maximum extent practicable.

The following design measures are incorporated into the proposed project and will serve to avoid and minimize impacts to biological resources:

- Prior to the start of construction, all construction and staging area limits will be clearly identified with orange construction fencing to ensure that construction activities remain within the defined construction limits. A qualified biologist will inspect the fencing prior to the start of construction and shall monitor activities during construction to avoid unauthorized impacts.
- During construction, all construction activities, including, but not limited to, equipment storage, equipment cleaning, and stock piling, will occur within the identified orange construction areas. All storage areas will be protected with the

use of fiber rolls and/or silt fences. All construction staging areas shall be identified on site and construction plans.

- Natural drainage patterns will be maintained to the extent practicable during construction activities. Erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps, will be incorporated into the erosion control plan for the proposed project.
- Best Management Practices (BMPs) will be implemented during construction activities which include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls shall be used to minimize surface transport of sediments. The construction contractor will be required to prepare and implement a *Stormwater Pollution Prevention Plan* (SWPPP). The implementation of BMPs as stated in the contract and SWPP would reduce water quality impacts to below a level of significance.
- The use of motorized vehicles on trails shall be prohibited, except for wheelchairs, maintenance and emergency vehicles.
- Physical and/or visual barriers shall be incorporated to protect sensitive habitats, sensitive species, and wetland habitats by directing users to designated trails using natural vegetation, topography, limited fencing, trail makers, and signage.
- Foot traffic, equestrian activity, and bicycling are allowed only on designated trails.
- Dogs must be leashed at all times and are restricted to designated trails.
- To prevent potential dust damage to vegetation in the conserved habitat, spraying of the construction site with water shall be conducted on an as-needed basis.
- Hunting of animals or waterfowl is prohibited.
- The release or transplantation of non-native animals, fish, or vegetation is prohibited. No collection of plants, plant material, wildlife, or historical artifacts is allowed.

- Trail lighting should not be permitted within wildlife habitat except where essential
  for roadways, facility use, and safety. Lighting within wildlife habitat or along its
  edges should be limited to low pressure sodium sources directed away and
  shielded from wildlife habitat.
- Trails will be 8 to 10 feet wide; however, trails proposed adjacent to areas of sensitive habitat, wetland habitats or wetland buffers shall be no greater than 4 feet wide.

Sensitive vegetation communities identified within the project footprint include eucalyptus woodland, giant reed, non-native grassland, Diegan coastal sage scrub, maritime succulent scrub, freshwater marsh, and southern willow scrub, and mulefat scrub. Land covers on the project site include developed land and ornamental plantings. As shown in Table 1 below, direct impacts to these sensitive vegetation communities and land covers will occur as a result of trail improvements within Segments 1, 1a, 3 through 8, and Staging Area 2.

| Table 1. Vegetation Impacts and Required Mitigation |                      |                        |                         |                          |                     |                                |
|---|----------------------|------------------------|-------------------------|--------------------------|---------------------|--------------------------------|
| Habitat   | Total<br>Onsite (ac) | Inside<br>MSCP<br>(ac) | Outside<br>MSCP<br>(ac) | Total<br>Impacts<br>(ac) | Mitigation<br>Ratio | Mitigation<br>Required<br>(ac) |
| Mule-fat Scrub                                      | 1.19                 | 1.19                   | 0.0                     | 0.00                     | N/A                 | N/A                            |
| Southern Willow<br>Scrub                            | 4.77                 | 2.97                   | 1.8                     | 1.07                     | 3:1                 | 3.21                           |
| Freshwater Marsh                                    | 0.828                | 0.098                  | 0.73                    | 0.15                     | 2:1                 | 0.30                           |
| Maritime Succulent Scrub                            | 2.94                 | 0.21                   | 2.73                    | 0.13                     | 2:1                 | 0.26                           |
| Diegan Coastal Sage<br>Scrub                        | 8.32                 | 6.04                   | 2.28                    | 1.24                     | 1.5:1               | 1.86                           |
| Non-native<br>Grassland                             | 21.16                | 3.36                   | 17.8                    | 7.12                     | 0.5:1               | 3.56                           |
| Eucalyptus<br>Woodland                              | 0.86                 | 0.44                   | 0.42                    | 0.23                     | N/A                 | N/A                            |
| Developed   | 28.25                | 16.66                  | 11.59                   | 7.15                     | N/A                 | N/A                            |
| Ornamental  | 5.75                 | 5.49                   | 0.26                    | 0.76                     | N/A                 | N/A                            |
| Giant Reed  | 0.17                 | 0.17                   | 0.0                     | 0.03                     | N/A                 | N/A                            |
| Total   | 74.238               | 37.61                  | 36.628                  | 14.5                     | _                   | 8.255                          |

Mitigation is required to reduce the impacts identified in Table 1 above to below a level of significance. Impacts to sensitive habitat types will be mitigated in conformance with the Biological Mitigation Ordinance (BMO). Impacts to Diegan costal sage scrub (a Tier II habitat) will be mitigated at a ratio of 1.5:1, totaling 1.86 acres. Impacts to non-native

grasslands (Tier III habitat) will be mitigated at a 0.5:1 ratio, totaling 3.56 acres. Impacts to freshwater marsh (a Tier I habitat) will be mitigated at a ratio of 2:1, totaling 0.30 acre. Impacts to disturbed southern willow scrub and maritime succulent scrub (Tier I habitats) will be mitigated at 3:1 and 2:1 ratios, respectively, totaling 3.21 acres for southern willow scrub and 0.26 acre for maritime succulent scrub. Mitigation is not required for impacts to eucalyptus woodland, giant reed, ornamental landscaping, and developed lands.

Mitigation for impacts identified in Table 1 above is proposed as follows:

- 1. Impacts to disturbed coastal sage scrub will be mitigated through deduction of 1.86 acre coastal sage scrub credits at the County's Rancho San Diego Mitigation Bank (1.5:1 ratio).
- 2. Impacts to southern willow scrub and freshwater marsh will be mitigated through restoration and enhancement of 3.51 acres of Spring Valley Creek (3:1 and 2:1 respectively). Portions of Spring Valley Creek that are east and south of Quarry Road are covered with dense stands of Giant Reed (*Arundo donax*) and Canary Island date (*Phoenix canariensis*) and Mexican fan palm (*Washingtonia robusta*) trees; which have removed much of the biological value of the creek. Restoration and enhancement will consist of removal of non-native species and replanting with native riparian species.
- 3. Impacts to 0.13 acre of maritime succulent scrub will be mitigated through preservation of 0.26 acre of maritime succulent scrub at a County approved mitigation bank. Alternatively, mitigation may consist of restoration of 0.26 acre of maritime succulent scrub within the Sweetwater Valley Regional Park.
- 4. Impacts to 7.12 acres of non-native grasslands will be mitigated at a 0.5:1 ratio. Credits totaling 3.56 acres will be deducted from the County of San Diego Rancho San Diego Mitigation Bank.

Four sensitive plant species were identified within the project area: California adolphia, San Diego barrel cactus, Otay tarplant, and San Diego viguiera. The proposed trail project will not result in direct impacts to these sensitive plant species.

Five sensitive animal species were identified within or adjacent to the project area: coastal California gnatcatcher, coastal cactus wren, San Diego black-tailed jackrabbit, orange-throated whiptail, and least Bell's vireo. No southwestern willow flycatchers or

arroyo toads were observed along the proposed trail segments around the reservoir. Protocol surveys for Quino checkerspot butterfly were performed to determine presence/absence of this species. Survey results were negative.

Impacts to these sensitive wildlife species would be limited to the loss of a small amount of suitable habitat. Most of the proposed trail system will be located in previously disturbed areas; however, potential impacts to these species through loss of habitat would occur. Due to the limited impacts to suitable habitat, habitat-based mitigation beyond that summarized in Table 1 above is not proposed.

Direct impacts could also occur to least Bell's vireo, coastal California gnatcatcher, and coastal cactus wren if vegetation removal or grading is conducted during the breeding season of these species (February 1 to September 15 of any year). In order to mitigate for this impact, vegetation removal, trail grading, and construction is restricted during the breeding season within 300 feet (500 feet for raptors) of natural habitat for types of raptors, California gnatcatcher, least Bell's vireo, and other migratory birds. If a qualified biologist determines that no nesting birds are within 300 feet (500 feet for raptors), construction may proceed with written concurrence from the United States Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG). Biological monitoring is required during construction to evaluate the potential for indirect impacts to raptors, migratory birds, and other sensitive biological resources on site.

| b)                  | Have a substantial adverse effect on<br>natural community identified in local or<br>the California Department of Fish and G | region | nal plans, policies, regulations or by |
|---------------------|---|--------|--|
| <ul><li>✓</li></ul> | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   |        | Less than Significant Impact No Impact |

Discussion/Explanation:

Less than Significant with Mitigation Incorporated: Construction of the proposed northern trail segments will require drainage crossings over several named and unnamed drainages under the jurisdiction of the U.S. Army Corps of Engineers (ACOE), California Department of Fish and Game (CDFG), and/or Regional Water Quality Control Board (RWQCB). Direct impacts include 1.07 acres of disturbed southern willow scrub and 0.15 acre of freshwater marsh habitat. The project has been designed to minimize impacts to wetland and riparian habitats to the maximum extent practicable as

described in Section IV(a). Table 2 below provides a summary of jurisdictional impacts by trail segment. Impacts to jurisdictional resources would be considered significant, however, and will require mitigation. Mitigation for impacts to jurisdictional resources will be mitigated at a 2:1 ratio. Refer to Table 2 below for a summary of jurisdictional impacts and required mitigation.

|         | Table 2. Total Jurisdictional Impacts and Required Mitigation by Segment |                     |                      |                     |                                  |  |  |
|---------|--|---------------------|----------------------|---------------------|----------------------------------|--|--|
| Segment | CDFG Impacts (acre)  | ACOE Impacts (acre) | Total Impacts (acre) | Mitigation<br>Ratio | Mitigation<br>Requirement (acre) |  |  |
| 1       | 0.01   | 0.01                | 0.01                 | 2:1                 | 0.02                             |  |  |
| 1a      | 0.0  | 0.0                 | 0.0                  | 2:1                 | -                                |  |  |
| 3       | 0.15   | 0.15                | 0.15                 | 2:1                 | 0.30                             |  |  |
| 4       | 0.78   | 0.78                | 0.78                 | 2:1                 | 1.56                             |  |  |
| 5       | 0.14   | 0.14                | 0.14                 | 2:1                 | 0.28                             |  |  |
| 6       | 0.12   | 0.12                | 0.12                 | 2:1                 | 0.24                             |  |  |
| 7       | 0.0  | 0.0                 | 0.0                  | 2:1                 | -                                |  |  |
| 8       | 0.08   | 0.08                | 0.08                 | 2:1                 | 0.16                             |  |  |
| Total   | 1.28   | 1.28                | 1.28                 |                     | 2.56                             |  |  |

In addition, the County will apply for permits to address these permanent and temporary impacts. These permits include a 1602 Streambed Alteration Agreement from CDFG, a 404 Nationwide Permit from the ACOE, and a 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB).

In addition to wetland and riparian impacts, the project will result in impacts to sensitive upland habitats communities, including disturbed coastal sage scrub, maritime succulent scrub and non-native grassland. Impacts to disturbed coastal sage scrub will be mitigated through deduction of 1.86 acre coastal sage scrub credits at the County's Rancho San Diego Mitigation Bank (1.5:1 ratio). Impacts to maritime succulent scrub will be mitigated through preservation of 0.26 acre of maritime succulent scrub at a County approved mitigation bank or through restoration of 0.26 acre within the Sweetwater Regional Park (2:1 ratio). Impacts to non-native grasslands will be mitigated through deduction of 3.56 acres of non-native grassland credits from the County's Rancho San Diego Mitigation Bank (0.5:1 ratio). Indirect impacts to coastal sage scrub communities adjacent to the proposed trail would be limited due to the project design features including the use of signs, and lodge pole directional fencing where needed to ensure that trail users recognize that the biological resources adjacent to the proposed trail alignment are sensitive. Refer to Table 1 for a summary of impacts and required mitigation for sensitive upland habitat communities.

Impacts to southern willow scrub and freshwater marsh will be mitigated through restoration and enhancement of 3.51 acres of Spring Valley Creek (3:1 and 2:1 ratio, respectively). Portions of Spring Valley Creek that are east and south of Quarry Road are covered with dense stands of Giant Reed (*Arundo donax*) and Canary Island date (*Phoenix canariensis*) and Mexican fan palm (*Washingtonia robusta*) trees; which have removed much of the biological value of the creek. Restoration and enhancement will consist of removal of non-native species and replanting with native riparian species.

| C) | Have a substantial adverse effect on f             | ederall | y prote  | cted wetland:  | s as defined by  |
|----|--|---------|----------|----------------|------------------|
|    | Section 404 of the Clean Water Act (in             | ncludin | g, but i | not limited to | , marsh, vernal  |
|    | pool, coastal, etc.) through direct rer            | noval,  | filling, | hydrological   | interruption, or |
|    | other means?                                       |         |          | _              |                  |
|    | _  |         |          |                |                  |
|    | Potentially Significant Impact                     |         | Less t   | han Significa  | nt Impact        |
| V  | Less Than Significant With Mitigation Incorporated |         | No Im    | pact           |                  |
|    | meerperated  |         |          |                |                  |

Discussion/Explanation:

Less than Significant with Mitigation Incorporated: Construction of the proposed northern trail segments will require drainage crossings or installation of drainage facilities for proper stormwater conveyance, resulting in impacts to drainage features under the jurisdiction of the U.S. Army Corps of Engineers (ACOE), California Department of Fish and Game (CDFG), and/or Regional Water Quality Control Board (RWQCB). Mitigation for impacts to jurisdictional resources will be mitigated at a 2:1 ratio as described in question IV(b) above. Refer to Table 2 for a summary of jurisdictional impacts and mitigation requirements by trail segment.

As described above, the County will obtain all required permits to address temporary and permanent impacts to jurisdictional resources. Required permits include a 1602 Streambed Alteration Agreement from CDFG, a 404 Nationwide Permit from the ACOE, and a 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB).

After implementation of required mitigation and approval of required permits, the project will not have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act.

August 20, 2008

| Ć  | nterfere substantially with the movemer<br>or wildlife species or with establishe<br>corridors, or impede the use of native wi  | d nat  | ive resident or migratory wildlife  |
|--|---|--|---|
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |  | Less than Significant Impact No Impact  |
| Discuss  | sion/Explanation:   |  |   |
| migrato wildlife result of habitats connect not, how site as disturbed Fences and looprovide | ran Significant Impact: Impedance of any fish or wildlife species, the use of an corridors, and the use of native wildlife of the proposed project. The Sweetwes provide habitat to many sensitive tion to undeveloped portions of easter wever, propose any structures or other a wildlife corridor. In addition, the led areas to the maximum extent practice will be used to direct users to the designated in areas as not to impede wildlife habitat connectivity post construction. If the use of the site as a wildlife corridor is. | n estable nurser ater Fundant barried project able von the formatter at th | olished native resident or migratory by sites would not be expected as a Reservoir and surrounding natural and animal species and provide Diego County. The project does ers that may impede the use of the trails to utilize the existing without removing sensitive habitats. I trails. The fences will be designed exement. The site will continue to rmore, the proposed project will not |
|  | Conflict with the provisions of any ado<br>Communities Conservation Plan, other<br>conservation plan or any other local policesources?  | appro  | ved local, regional or state habitat  |
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |  | Less than Significant Impact No Impact  |
| Discuss  | sion/Explanation:   |  |   |

The majority of the proposed trail is located within the boundaries of the County's Multiple Species Conservation Program (MSCP). The project has been found to

August 20, 2008

conform to the requirements of this program. Refer to the MSCP Findings, dated August 2008, for information and substantiation of compliance.

Portions of the proposed trail are located outside the boundaries of the MSCP. Segments 4-8 are located on lands owned by the Sweetwater Authority (SWA). Water district lands were not included within the County's MSCP Subarea Plan. The project will result in impacts to CSS on Segments 4 and 6. The County will obtain Take Authorization through the County's Habitat Loss Permit process. Refer to the Habitat Loss Permit Findings, dated July 14, 2008, for information and substantiation of compliance.

| <u>V. C</u>  | ULTURAL RESOURCES Would the   | proje | ct:                                    |  |
|--|---|-------|--|--|
| •  | ause a substantial adverse change in s defined in 15064.5?                              | the s | ignificance of a historical resource   |  |
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated       |       | Less than Significant Impact No Impact |  |
| Discussi   | ion/Explanation:  |       |  |  |
| <b>No Impact:</b> Based on an analysis of records and a survey of the property by County of San Diego staff archaeologist, Glenn Russell, on January 6, 2005, no impacts to historical resources are expected because they do not occur within the project site. |   |       |  |  |
| 40000  | ause a substantial adverse change i esource pursuant to 15064.5?                        | n the | significance of an archaeological      |  |
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |       | Less than Significant Impact No Impact |  |

Discussion/Explanation:

Less Than Significant Impact: A preliminary institutional records search was conducted at the South Coast Information Center of the California Historic Resources File System at San Diego State University to identify any previously recorded sites in the area of the proposed Sweetwater Reservoir Loop Trail. Based on the record

search, it was determined that the project area had previously been surveyed and nine prehistoric sites were identified.

The project area was resurveyed and all previously identified sites were reevaluated by County staff archaeologist, Glenn Russell, on January 26, 2005. Of the nine previously identified sites, scattered artifacts were found at CA SDi 4769, CA SDi 4771, CA SDi 4645, CA SDi 6843, CA SDi 10994, and CA SDi 4770. No artifacts could be found at CA SDi 4773 and CA SDi 7978. Surveys were not conducted at CA SDi 4772 because the site is outside the project limits. If the project boundary were extended, CA SDi 4772 would be reevaluated at that time. Excavation of the nine previously recorded sites would not contribute to the understanding of local, regional, state or national history or prehistory and are therefore determined not to be significant.

As part of the investigation by Dr. Russell, one new site was located. This site consisted of low-density lithic scatter and is probably characterized as a minor quarry location for metavolcanic cobbles. Although relatively few pieces of debitage were present the site was determined not to be eligible for listing on the California Register of Historical Resources. In addition the construction of the trail will have no impact on the site.

A separate archaeological investigation was conducted for Segment 1a by ICF Jones and Stokes archaeologist, William Eckhardt, in January 2008. Segment 1a is located between Conduit Road and the Bonita Road Bridge, adjacent to the southern boundary of the Bonita Golf Course. As a result of a pedestrian reconnaissance, the survey determined that cultural materials were present within or adjacent to Segment 1a. These materials include marine shell, a lithic flake, and small fragments of historic refuse. The Negative Cultural Resources Report for the Sweetwater Loop Trail Project, prepared by ICF Jones & Stokes (April 2008) evaluated the significance of the archaeological resources based on subsurface testing, analysis of recovered artifacts, and other investigations. The study concluded that the archaeological resource(s) are not significant pursuant to the State of California Environmental Quality Act (CEQA) Guidelines, Section 15064.5.

The results of the archaeological investigations summarized above were provided in the Sweetwater Loop Trail Archaeological Study prepared for the proposed project by Glenn Russell (June 2005). The study identified the significance of the archaeological resources on the project site and concluded that the archaeological resource(s) were not significant pursuant to the State of California Environmental Quality Act (CEQA) Guidelines, Section 15064.5. If resources are not considered significant archaeological resources pursuant to CEQA Section 15064.5, loss of these resources cannot

contribute to a potentially significant cumulative impact. In addition, the proposed loop trail project will establish trails along currently non-designated existing disturbed trails, paths and roadways wherever feasible and does not propose any grading activities in the location of the previously identified archaeological sites. Impacts are less than significant.

| c)   | Directly or indirectly destroy a unique ge  | ologic | c feature?                             |  |  |
|--|---|--------|--|--|--|
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated |        | Less than Significant Impact No Impact |  |  |
| Discu  | ssion/Explanation:  |        |  |  |  |
| Unique geologic features are those that are unique to the field of geology. Unique geologic features are not common in San Diego; however, some features stand out as being unique in one way or another within the boundaries of the County. Adverse impacts to unique geologic features typically include material impairment through the destruction, permanent covering, or alteration of the feature. An indirect impact includes the loss of geologic history and any associated scientific value or characteristic changes to a community that results from destruction of the unique geologic environment. |   |        |  |  |  |
| <b>No Impact:</b> The project site does not contain any unique geologic features that have been catalogued within the Conservation Element (Part X) of the County's General Plan or support any known geologic characteristics that have the potential to support unique geologic features. In addition, the project site does not meet the significance criteria listed in the County's Guidelines for Determining Significance for Unique Geologic Features (July 2007).   |   |        |  |  |  |
| d)   | Directly or indirectly destroy a unique pa  | leonto | ological resource or site?             |  |  |
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated |        | Less than Significant Impact No Impact |  |  |

Discussion/Explanation:

**Less Than Significant With Mitigation Incorporated:** A review of the County's Paleontological Resources Maps and data on San Diego County's geologic formations

indicates that the project is located on geological formations that potentially contain unique paleontological resources. The project has high potential for containing paleontological resources and will excavate less than 2,500 cubic yards of the substratum and/or bedrock below the soil horizons. Excavating into undisturbed ground beneath the soil horizons may cause a significant impact if unique paleontological resources are encountered. An impact to paleontological resources does not typically occur until the resource is disturbed; therefore, monitoring will take place during excavation is implemented to mitigate potentially significant impacts to unique paleontological resources to below a level of significance.

A monitoring program implemented by the excavation/grading contractor will be required. Equipment operators and others involved in the excavation should watch for fossils during the normal course of their duties. In accordance with the Grading Ordinance, if a fossil or fossil assemblage of greater than twelve inches in any dimension is encountered during excavation, all excavation operations in the area where the fossil or fossil assemblage was found shall be suspended immediately, the County's Permit Compliance Coordinator shall be notified, and a Qualified Paleontologist shall be retained by the applicant to inspect the find to determine if it is significant. A Qualified Paleontologist is a person who has, to the satisfaction of the Planning and Land Use Director:

- A Ph.D. or M.S. or equivalent in paleontology or closely related field (e.g., sedimentary or stratigraphic geology, evolutionary biology, etc.);
- Demonstrated knowledge of southern California paleontology and geology; and
- Documented experience in professional paleontological procedures and techniques.

If the Qualified Paleontologist determines that the fossil or fossil assemblage is significant; a mitigation program involving salvage, cleaning, and curation of the fossil(s) and documentation shall be implemented. If no fossils or fossil assemblages of greater than 12 inches in any dimension are encountered during excavation, a "No Fossils Found" letter will be submitted to the County Department of Planning and Land Use identifying who conducted the monitoring and that no fossils were found. If one or more fossils or fossil assemblages are found, the Qualified Paleontologist shall prepare a report documenting the mitigation program, including field and laboratory methodology, location and the geologic and stratigraphic setting, list(s) of collected fossils and their

paleontological significance, descriptions of any analyses, conclusions, and references cited.

Implementation of the above project requirements during project grading operations would reduce any potential impacts to paleontological resources to below a level of significance. Furthermore, the project will not result in a cumulative impact to paleontological resources because other projects that require grading in sensitive paleontological resource areas will be required to have the appropriate level of paleontological monitoring and resource recovery. In addition, other projects that propose significant grading would be subject to the regulations for paleontological monitoring as required pursuant to the County's Grading Ordinance. The project would not result in a significant direct, indirect, or cumulatively significant loss of paleontological resources.

| e) Disturb any human remains, including those interred outside of f cemeteries?  | oma |
|--|-----|
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated  Less Than Significant With Mitigation Incorporated  No Impact |     |

# Discussion/Explanation:

No Impact: Based on an analysis of records and a survey of the property by County of San Diego staff archaeologist, Glenn Russell, on January 26, 2005, it has been determined that the project will not disturb any human remains because the project site does not include a formal cemetery or any archaeological resources that might contain interred human remains. The Negative Cultural Resources Report for the Sweetwater Loop Trail Project, prepared by ICF Jones & Stokes (April 2008) evaluated the significance of the archaeological resources based on subsurface testing, analysis of recovered artifacts, and other investigations. The study concluded that the archaeological resource(s) are not significant pursuant to the State of California Environmental Quality Act (CEQA) Guidelines, Section 15064.5. The results of the two survey are included in an archaeological survey report entitled, Sweetwater Loop Trail Archaeological Survey Report, prepared by Glenn Russell (June 2005). The survey report evaluated the significance of the archaeological resources on the project site and concluded that the archaeological resources are not significant pursuant to the State of California Environmental Quality Act (CEQA) Guidelines, Section 15064.5.

#### VI. GEOLOGY AND SOILS -- Would the project:

| a)                                    | -   | se people or structures to potential loss, injury, or death involving:                               | subst                   | antial adverse effects, including the   |
|---------------------------------------|---|--|-------------------------|---|
|                                       | i.  | Alquist-Priolo Earthquake Fault Z  | oning<br>subs           | as delineated on the most recent<br>Map issued by the State Geologist<br>tantial evidence of a known fault?<br>Special Publication 42.  |
|                                       | Pote                                      | entially Significant Impact  |                         | Less than Significant Impact  |
|                                       |   | s Than Significant With Mitigation rporated  | V                       | No Impact   |
| Discu                                 | ssion/E                                   | explanation:   |                         |   |
| Alquis<br>Fault-<br>substa<br>or stru | t-Priolo<br>Ruptur<br>antial e<br>uctures | e Earthquake Fault Zoning Act,<br>e Hazards Zones in California,<br>vidence of a known fault. No geo | Spec<br>or lo<br>logic  | pture hazard zone identified by the ial Publication 42, Revised 1997 cated within any other area with impact from the exposure of people rupture hazard zone will result from |
|                                       | ii.                                       | Strong seismic ground shaking?   |                         |   |
|                                       |   | entially Significant Impact  | $\overline{\checkmark}$ | Less than Significant Impact  |
|                                       |   | s Than Significant With Mitigation rporated  |                         | No Impact   |

Discussion/Explanation:

Less Than Significant Impact: The project proposes to establish and formalize the northern portion of the Sweetwater Loop Trail. The project includes installation of a pedestrian/equestrian bridge over Spring Valley Creek. To ensure the structural integrity of the bridge and any other structures, the project must conform to the Seismic Requirements as outlined within the California Building Code. A geotechnical investigation will be completed prior to installation of the bridge in order to verify that the geology of the site is suitable for the bridge. Compliance with the California Building Code and the County Code will ensure that the project will not result in a potentially

significant impact from the exposure of people or structures to potential adverse effects from strong seismic ground shaking.

| iii. Seismic-related ground failure, in   | cluding liquefaction?  |  |  |
|---|--|--|--|
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | <ul><li>✓ Less than Significant Impact</li><li>✓ No Impact</li></ul> |  |  |
| Discussion/Explanation:   |  |  |  |
| Less Than Significant Impact: A portion of the project site (Segment 1a) is located within a "Potential Liquefaction Area" as identified in the County Guidelines for Determining Significance for Geologic Hazards. No structures are proposed as part of the project, however. The potential to expose people or structures to adverse effects from a known area susceptible to ground failure, including liquefaction, is therefore minimal and less than significant. |  |  |  |
| iv. Landslides?   |  |  |  |
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | <ul><li>☐ Less than Significant Impact</li><li>☑ No Impact</li></ul> |  |  |

Discussion/Explanation:

**No Impact:** The project site is not within a "Landslide Susceptibility Area" as identified in the County Guidelines for Determining Significance for Geological Hazards (July 2007). Landslide Susceptibility Areas were developed based on landslide risk profiles included in the *Multi-Jurisdictional Hazard Mitigation Plan, San Diego, CA* (URS, 2004). Landslide risk areas from this plan were based on data including steep slopes (greater than 25%); soil series data (SANDAG based on USGS 1970s series); soil-slip susceptibility from USGS; and Landslide Hazard Zone Maps (limited to western portion of the County) developed by the California Department of Conservation, Division of Mines and Geology (DMG). Also included within Landslide Susceptibility Areas are gabbroic soils on slopes steeper than 15% in grade because these soils are slide prone. As the project is not located within an identified Landslide Susceptibility Area and the geologic environment has a low probability to become unstable, the project would have

no impact from the exposure of people or structures to potential adverse effects from landslides.

| b)  | F     | Result in substantial soil erosion or the l   | oss of | topsoil?                               |
|-----|-------|---|--------|--|
|     |       | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |        | Less than Significant Impact No Impact |
| Dis | scuss | sion/Explanation:   |        |  |

Less Than Significant Impact: According to the Soil Survey of San Diego County, the soils on-site are identified as Auld clad, Diablo clay (9-15 percent slope), Diablo clay (15-30percent slope), Huerhuero-Urban land complex, Linne clay loam, Riverwash, Tujunga sand, Olivenhain cobbly loam, San Miguel-Exchequer Rocky silt loams, and San Miguel rocky silt loams that have a soil erodibility rating of "moderate" and/or "severe" as indicated by the Soil Survey for the San Diego Area, prepared by the US Department of Agriculture, Soil Conservation and Forest Service dated December 1973. However, the project will not result in substantial soil erosion or the loss of topsoil for the following reasons The project will utilize existing trail treads to the maximum extent practicable. Trails will be 8-10 feet wide and 4 feet wide in areas of sensitive habitat. The project will avoid the removal of mature vegetation and will only remove those stumps, boulders, and roots that interfere with safe passage

Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. Grading and construction activities within and adjacent to the existing drainages on site have the potential to cause soil erosion and sedimentation, which may result in increased rates of surface runoff, decreased water quality, and related environmental damage, if appropriate erosion and sedimentation control measures are not implemented. Natural drainage patterns will be maintained to the extent practicable during construction activities. An erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps, to control erosion. Best Management Practices (BMPs) will be implemented during construction activities which include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls shall be used to minimize surface transport of sediments.

The project proposes to utilize the existing trail tread to the fullest extent practicable. The trail will be designed to ensure runoff sheet flows toward proposed BMPs (i.e. vegetated buffer strip and gravel gutter) to prevent rills and erosion. The trail will be periodically re-graded to prevent rills from forming, to promote sheet flow, and to reduce erosion. The re-grading will be on an as-needed basis, but a minimum of one time per year at the end of the rainy season. An effective combination of site control, source control, and treatment control Best Management Practices (BMPs) will be implemented as part of the project.

The project is required to comply with the San Diego County Code of Regulations, Title 8, Zoning and Land Use Regulations, Division 7, Sections 87.414 (DRAINAGE - EROSION PREVENTION) and 87.417 (PLANTING). Compliance with these regulations minimizes the potential for water and wind erosion. The project will not result in substantial soil erosion or the loss of topsoil on a project level.

In addition, the project will not contribute to a cumulatively considerable impact because all the of past, present and future projects included on the list of projects that involve grading or land disturbance are required to follow the requirements of the San Diego County Code of Regulations, Title 8, Zoning and Land Use Regulations, Division 7, Sections 87.414 (DRAINAGE - EROSION PREVENTION) and 87.417 (PLANTING); Order 2001-01 (NPDES No. CAS 0108758), adopted by the San Diego Region RWQCB on February 21, 2001; County Watershed Protection, Storm Water Management, and Discharge Control Ordinance (WPO) (Ord. No. 9424); and County Storm water Standards Manual adopted on February 20, 2002, and amended January 10, 2003 (Ordinance No. 9426). Refer to XVII. Mandatory Findings of Significance for a complete list of the projects considered.

| c) | Will the project produce unstable geolo impacts resulting from landslides, later collapse? | _ |  |
|----|--|---|--|
|    | Potentially Significant Impact Less Than Significant With Mitigation Incorporated          |   | Less than Significant Impact No Impact |

Discussion/Explanation:

**No Impact:** The project is not located on or near geological formations that are unstable or would potentially become unstable as a result of the project. On a site visit

conducted by ESU Staff, no geological formations or features were noted that would produce unstable geological conditions as a result of the project. For further information, refer to VI Geology and Soils, Question a (i) through (iv) above.

| d)                               |                                      | Be located on expansive soil, as defined<br>Code (1994), creating substantial risks t   |  | -  |
|----------------------------------|--------------------------------------|---|--|--|
|                                  |                                      | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |  | Less than Significant Impact No Impact   |
| Dis                              | cuss                                 | sion/Explanation:   |  |  |
| the<br>per<br>clay<br>Roo<br>ber | Uni<br>cent<br>y loa<br>cky<br>navic | pact: The project does not contain expansion Building Code (1994). The soils t slope), Diablo clay (15-30percent slope am, Riverwash, Tujunga sand, Olivenh silt loams, and San Miguel rocky silt for of low and represent no substantial does not propose the construction of an | on si<br>e), Hu<br>ain co<br>oams<br>risks | te are Auld clad, Diablo clay (9-15)<br>erhuero-Urban land complex, Linne<br>obbly loam, San Miguel-Exchequer<br>. These soils have a shrink-swell<br>to life or property. In addition the |
| Thi<br>by<br>De                  | s wa<br>the<br>cem                   | oject will not create a substantial risk to<br>as confirmed by staff review of the Soil<br>US Department of Agriculture, Soil<br>ber 1973.  | Surve<br>Conse                             | y for the San Diego Area, prepared<br>ervation and Forest Service dated  |
| e)                               | 8                                    | Have soils incapable of adequately alternative wastewater disposal system disposal of wastewater?   |  |  |
|                                  |                                      | Potentially Significant Impact Less Than Significant With Mitigation  |  | Less than Significant Impact No Impact   |

Discussion/Explanation:

Incorporated

**No Impact:** The project is the establishment and formalization of the northern portion of the Sweetwater Loop Trail and a trail segment that will link the complete loop trail to

existing trails to the west. The project does not propose any septic tanks or alternative wastewater disposal systems as no wastewater will be generated.

# VII. HAZARDS AND HAZARDOUS MATERIALS -- Would the project:

| a) Create a significant hazard to the public or the environment through the routine transport, storage, use, or disposal of hazardous materials or wastes or through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?    Potentially Significant Impact Potentially Significant Unless Mitigation Incorporated   Less than Significant Impact No Impact   No Impact   |   |  |  |   |
|--|---|--|--|---|
| Potentially Significant Unless No Impact  No Impact: The project will not create a significant hazard to the public or the environment because it does not propose the storage, use, transport, emission, or disposal of hazardous substances. There are no hazardous substances proposed or currently in use in the immediate vicinity. In addition, the project does not propose to demolish any existing structures onsite and therefore would not create a hazard related to the release of asbestos, lead based paint, or other hazardous materials from demolition activities.  b) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?  Potentially Significant Impact  Less than Significant Impact  No Impact   | a)  | transport, storage, use, or disposal of h reasonably foreseeable upset and acc   | azard<br>ident                         | lous materials or wastes or through   |
| No Impact: The project will not create a significant hazard to the public or the environment because it does not propose the storage, use, transport, emission, or disposal of hazardous substances. There are no hazardous substances proposed or currently in use in the immediate vicinity. In addition, the project does not propose to demolish any existing structures onsite and therefore would not create a hazard related to the release of asbestos, lead based paint, or other hazardous materials from demolition activities.  b) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?  □ Potentially Significant Impact □ Less than Significant Impact □ Less Than Significant With Mitigation □ No Impact |   | Potentially Significant Unless   |  |   |
| environment because it does not propose the storage, use, transport, emission, or disposal of hazardous substances. There are no hazardous substances proposed or currently in use in the immediate vicinity. In addition, the project does not propose to demolish any existing structures onsite and therefore would not create a hazard related to the release of asbestos, lead based paint, or other hazardous materials from demolition activities.  b) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?  Potentially Significant Impact Less Than Significant With Mitigation No Impact Incorporated  | Discus  | ssion/Explanation:   |  |   |
| substances, or waste within one-quarter mile of an existing or proposed school?  Potentially Significant Impact Less Than Significant With Mitigation Incorporated  No Impact  | environ<br>dispos<br>curren<br>demoli<br>to the | nment because it does not propose the all of hazardous substances. There are tly in use in the immediate vicinity. In a sish any existing structures onsite and the release of asbestos, lead based page | ne sto<br>e no h<br>addition<br>erefor | orage, use, transport, emission, or<br>nazardous substances proposed or<br>on, the project does not propose to<br>e would not create a hazard related |
| Less Than Significant With Mitigation Incorporated No Impact   | b)  |  |  | -   |
| Incorporated   |   | Potentially Significant Impact   |  | Less than Significant Impact  |
| Discussion/Explanation:  |   |  | $\overline{\checkmark}$                | No Impact   |
|  | Discus  | ssion/Explanation:   |  |   |

# No Impact:

The project is not located within one-quarter mile of an existing or proposed school. Therefore, the project will not have any effect on an existing or proposed school.

c) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, or is otherwise known

August 20, 2008

|   | o have been subject to a release of I would it create a significant hazard to the   |  |   |
|---|---|--|---|
|   | Potentially Significant Impact  |  | Less than Significant Impact  |
|   | Less Than Significant With Mitigation Incorporated  | $\checkmark$   | No Impact   |
|   | incorporated  |  |   |
| Discuss   | sion/Explanation:   |  |   |
| not bee not included waste 65962.5 Diego Departed Program Recove or the Estructura open, a of a part or within leaking contamination of the estructural open. | pact: Based on a site visit and regulated in identified as subject to a release of houded in any of the following lists or data and Substances sites list compiled particles, the San Diego County Hazardous Marcounty DEH Site Assessment and ment of Toxic Substances Control (DTSM) Database ("CalSites" Envirostor Database ("CalSites" Envirostor Database ("CalSites" Envirostor Database ("CalSites" Envirostor Database for human occupancy or significant bandoned, or closed landfill; is not located identified as containing burn ash (from 1,000 feet of a Formerly Used Defin 1,000 feet of a Formerly Used Defin 1,000 feet of a Formerly Used Defination from historic uses such as interpretable or vehicle repair shop. The project worker the environment. | azard<br>abases<br>oursua<br>aterial<br>Mitie<br>C) Site<br>abase<br>the EF<br>ddition<br>linear<br>ted or<br>ted or<br>fense<br>of loca | ous substances. The project site is the State of California Hazardous ant to Government Code Section s Establishment database, the Sangation (SAM) Case Listing, the Mitigation and Brownfields Reuse), the Resource Conservation and PA's Superfund CERCLIS database hally, the project does not propose excavation within 1,000 feet of an or within 250 feet of the boundary historic burning of trash); is not on Site (FUDS); does not contain a sted on a site with the potential for agriculture, industrial uses, a gas |
| n<br>tl   | For a project located within an airport land to been adopted, within two miles of a he project result in a safety hazard for area?  | public   | airport or public use airport, would  |
|   | Potentially Significant Impact  |  | Less than Significant Impact  |
|   | Less Than Significant With Mitigation Incorporated  | $\overline{\checkmark}$  | No Impact   |
| Discuss   | sion/Explanation:   |  |   |

e)

**No Impact:** The proposed project is not located within an Airport Land Use Compatibility Plan (ALUCP), a Comprehensive Land Use Plan (CLUP), within a Federal Aviation Administration Height Notification Surface, or within two miles of a public airport. Also, the project does not propose construction of any structure equal to or greater than 150 feet in height, constituting a safety hazard to aircraft and/or operations from an airport or heliport. Therefore, the project will not constitute a safety hazard for people residing or working in the project area.

For a project within the vicinity of a private airstrip, would the project result in a

| safety hazard for people residing or working in the project area?  |
|--|
| □ Potentially Significant Impact Less Than Significant With Mitigation Incorporated □ Less than Significant Impact No Impact   |
| Discussion/Explanation:  |
| <b>No Impact:</b> The proposed project is not within one mile of a private airstrip. The project will therefore not constitute a safety hazard for people residing or working in the project area. |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?  |
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated  Less than Significant Impact No Impact  |
| Discussion/Explanation:  |

The following sections summarize the project's consistency with applicable emergency response plans or emergency evacuation plans.

i. OPERATIONAL AREA EMERGENCY PLAN AND MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN:

**Less Than Significant Impact:** The Operational Area Emergency Plan is a comprehensive emergency plan that defines responsibilities, establishes an emergency organization, defines lines of communications, and is designed to be part of the

statewide Standardized Emergency Management System. The Operational Area Emergency Plan provides guidance for emergency planning and requires subsequent plans to be established by each jurisdiction that has responsibilities in a disaster situation. The Multi-Jurisdictional Hazard Mitigation Plan includes an overview of the risk assessment process, identifies hazards present in the jurisdiction, hazard profiles, and vulnerability assessments. The plan also identifies goals, objectives and actions for each jurisdiction in the County of San Diego, including all cities and unincorporated areas of the County. The project will not interfere with this plan as it will not prohibit subsequent plans from being established or prevent the goals and objectives of the existing plan from being implemented.

ii. SAN DIEGO COUNTY NUCLEAR POWER STATION EMERGENCY RESPONSE PLAN

**No Impact:** The project will not interfere with or impair implementation of the San Diego County Nuclear Power Station Emergency Response Plan due to the location of the project and the specific requirements of the plan. The emergency plan for the San Onofre Nuclear Generating Station includes an emergency planning zone within a 10-mile radius. The land area within 10 miles of the plant is not within the County's jurisdiction; therefore, the proposed project, which is located in the unincorporated area of the County, is not expected to interfere with any response or evacuation plan for nuclear power stations.

#### iii. OIL SPILL CONTINGENCY ELEMENT

**No Impact:** The proposed project will not interfere with or impair implementation of the Oil Spill Contingency Element as the project is not located within the coastal zone or coastline.

iv. EMERGENCY WATER CONTINGENCIES ANNEX AND ENERGY SHORTAGE RESPONSE PLAN

**No Impact:** The proposed project will not interfere with or impair implementation of the Emergency Water Contingencies Annex and Energy Shortage Response Plan as the project does not propose altering major water or energy supply infrastructure such as the California Aqueduct.

#### v. DAM EVACUATION PLAN

Less Than Significant Impact: The proposed project will not interfere with or impair implementation of the Dam Evacuation Plan for the Sweetwater Dam. Even though the

project is located within a dam inundation zone, the project is not a unique institution that would be difficult to safely evacuate in the event of a dam failure. Unique institutions, as defined by the Office of Emergency Services, include hospitals, schools, skilled nursing facilities, retirement homes, mental health care facilities, care facilities for patients with disabilities, adult and childcare facilities, jails/detention facilities, stadiums, arenas, amphitheaters, or a similar use.

| g) | Expose people or structures to a significant       |                              |
|----|--|------------------------------|
|    | wildland fires, including where wildlands          |                              |
|    | where residences are intermixed with wildla        | nds?                         |
| _  |  |                              |
|    | J Potentially Significant Impact   ✓               | Less than Significant Impact |
|    | Less Than Significant With Mitigation Incorporated | No Impact                    |

Discussion/Explanation:

Less Than Significant Impact: The loop trail project is surrounded by developed and residential uses to the north and open space parks to the south. The southwest area of the loop trail system goes through Sweetwater Regional County Park, owned and maintained by the County. The Sweetwater River is located to the east and west of the reservoir, and Spring Valley Creek lies on the northwest side of the reservoir. The proposed project is located on undeveloped lands adjacent to wildlands that have the potential to support wildland fires; however, the project will not expose people or structures to a significant risk of loss, injury or death involving wildland fires because the project will comply with the regulations relating to emergency access, water supply, and defensible space specified in the Uniform Fire Code, Article 9 and Appendix II-A, Section 16, as adopted and amended by the local fire protection district. In addition the trail tread will serve as fuel/fire break. Based on a review of the project by County staff, staff has determined that through compliance with the Uniform Fire Code, Article 9 and Appendix II-A, Section 16, the project is not anticipated to expose people or structures to a significant risk of loss, injury or death involving hazardous wildland fires. Moreover, the project will not contribute to a cumulatively considerable impact as all past, present and future projects are also required to comply with the Uniform Fire Code.

h) Propose a use, or place residents adjacent to an existing or reasonably foreseeable use that would substantially increase current or future resident's exposure to vectors, including mosquitoes, rats or flies, which are capable of transmitting significant public health diseases or nuisances?

August 20, 2008

| COFE   | D-00251  |   |  |
|--|--|---|--|
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated  | <b>☑</b>  | Less than Significant Impact No Impact   |
| Discu  | ssion/Explanation:   |   |  |
| water<br>involv<br>trail u<br>coord<br>Progr<br>expos<br>ensur | Than Significant Impact: The project do stand for a period of 72 hours (3 days to stand for a period for a period of 72 hours (3 days to stand for a period for a period for a period for a period for | vs) or ollect ole to some one to ole to                             | more. The project does, however animal waste, including equestrian significant risk related to vectors. In mental Health, Vector Surveillance tion will ensure that people are not agement measures are intended to significant risk of injury or death        |
| must onsite will be Count waste Count be reroff-sit            | pick up after pets and dispose of any was e. Signage will be posted in designated a provided for owners at staging areas. Fit will contract with a licensed waste district removal. Horse manure will be removally-contracted personnel. Storage contains moved offsite immediately. The County me composing operations as a less expensionsal facility.   | ites of<br>areas<br>Prior to<br>sposal<br>ed fro<br>ers w<br>nay al | fsite or in proper locations identified as appropriate and pet waste bags of opening the trail to public use, the facility to establish a schedule form the trail on a weekly basis by ill not be necessary as manure will so investigate the use of manure in |
| VIII.  | HYDROLOGY AND WATER QUALITY  | Wo  | uld the project:   |
| a)   | Violate any water quality standards or w   | aste c  | lischarge requirements?  |

☑ Less than Significant Impact

No Impact

Discussion/Explanation:

Incorporated

☐ Potentially Significant Impact

Less Than Significant With Mitigation

**Less Than Significant Impact:** As described in Section IV, Biological Resources, implementation of the proposed northern trail segments will result in impacts to resources under the jurisdiction of the ACOE, CDFG, and RWQCB. Required permits include 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB). The County will obtain all required permits prior to initiation of construction of the project.

Potential pollutants that may result from the trail improvement project and staging areas include sediment and soils released offsite during construction grading activities, trash and debris, potential fuel spillage, and nitrogen and phosphorous from horse manure. Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3.

On January 24, 2007, the San Diego RWQCB adopted Order No. R9-2007-0001 for a new Municipal Stormwater Permit (MS4), which represents the second municipal permit issued to the San Diego County co-permittees. In compliance with the Municipal Stormwater Permit, the proposed project includes special site design considerations, source control Best Management Practices (BMPs), and treatment control BMPs. By incorporating appropriate design consideration and mitigation measures, the proposed project would be in compliance with all water quality standards and waste discharge requirements.

The following site design measures, source control and treatment control BMPs will be implemented to reduce potential pollutants in runoff:

#### Site and Source Control BMPs

- The location of the proposed trail will be set back at least 100 feet from the high water level of the reservoir.
- A 6-foot chain linked fence will continue to protect the Sweetwater Reservoir from recreational trail users. At no point along the trail will a user be located between the reservoir and the chain linked fence. Any barbed wire installed at the top of chain linked fences along the trail corridor will be positioned away from the trail to ensure safety of equestrian users.
- Some of the chemicals used in "treated" wood, such as arsenic, are not acceptable for use in close proximity to a drinking water reservoir. Sweetwater

Authority's Water Quality Department should review and approve the use of any "treated" construction materials.

- Horses will be prohibited from entering the reservoir or any stream within 200 feet of the reservoir shoreline. Chain link fencing will be installed along the perimeter of the trail to prevent entry to the reservoir.
- The trail will be designed to sheet flow runoff towards the proposed BMPs (i.e. vegetated buffer strip and gravel gutter) to prevent rills and erosion.
- The trail will be periodically re-graded, as needed, to prevent rills from forming, to promote sheet flow, and to reduce erosion. The re-grading will be on an asneeded basis, but a minimum of one time per year at the end of the rainy season.
- Trail Segment 8 (the portion of the trail on Sweetwater Authority property) is subject to closure, without notice, for maintenance or operational activities, or should Sweetwater Authority, or any other regulatory agency, determine the safety of the stored water is jeopardized.
- The Proposed Rules and Regulations for trail use will require pet owners to pick up after their pets and dispose of any wastes in a proper location on or off-site. Pet waste bags will be provided for owners at staging areas. Signage will also be posted in designated areas as appropriate.
- Prior to opening the trail to public use, the County will contract with a licensed waste disposal facility to establish a schedule for waste removal. Horse manure will be removed from the trail on a weekly basis by County-contracted personnel. Storage containers will not be necessary as the manure will be removed offsite immediately. The County may also investigate the use of manure in composting operations as a less expensive alternative to the removal of waste to a disposal facility.
- Daily inspections may be necessary before, during, and after rain or storm events
  to ensure the integrity of the trail system. Manure, trash, litter and debris will be
  removed in a timely manner prior to a rain or storm event. If necessary, trails will
  be closed during severe rain events. Temporary signage will be installed at trail
  heads, staging areas, and/or at the adjacent Sweetwater Summit Regional Park
  during inclement weather advising users of trail closures.

- Trail maintenance will be performed by County-contracted personnel or volunteers on an as-needed basis to pick up trash and debris, smooth the trail, and to trim vegetation..
- Trail brochures and signage, indicating the reservoir is a source of domestic water supply and should not be polluted, will be provided to educate the public and discourage any type of pollution.

#### **Treatment Control BMPs**

- In areas where the trail is between 10 feet and 25 feet from the Urban Runoff Diversion System (URDS), a 12-inch gravel gutter and vegetated buffer strip, with a slope less than 15% sloping towards the reservoir, will be installed along the shoreward edge of the trail. The buffer strip will trap sediment, nutrients, trash, and organics and prevent them from migrating towards the reservoir.
- In areas where the trail is less than 10 feet from the URDS, a 12-inch gravel gutter and vegetated buffer strip as stated above will apply. In addition, an impervious barrier, landscaping edging, will be installed as close to the URDS system as possible.

As part of the proposed project, an erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps. In addition, Best Management Practices (BMPs) will be implemented during construction activities to avoid water quality impacts, polluted runoff, erosion, and sedimentation. BMPs include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls will be used to minimize surface transport of sediments. The construction contractor will be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP).

| b) | Is the project tributary to an already imp<br>Water Act Section 303(d) list? If so, cou<br>pollutant for which the water body is alre | uld the | e project result in an increase in any |
|----|---|---------|--|
|    | Potentially Significant Impact Less Than Significant With Mitigation  |         | Less than Significant Impact           |
| L  | Incorporated  | ш       | No Impact                              |

Less Than Significant Impact: The project lies within the La Nacion (909.12) and Jamacha (909.21) hydrologic subarea, within the Sweetwater hydrologic unit. Portions of this watershed are impaired for Coliform bacteria and metals; however, the project does not propose any known sources of pollutants or land use activities that might contribute to these specific pollutants.

Potential pollutants that may result from the trail improvement project and staging areas include sediment and soils released offsite during construction grading activities, trash and debris, potential fuel spillage, and nitrogen and phosphorous from horse manure. Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. The proposed project includes special site design considerations, source control Best Management Practices (BMPs), and treatment control BMPs. Refer to VIII (a) above for a summary of the site, source, and control BMPs that are included in the proposed project.

| c) | Could the proposed project cause or contribusing surface or groundwater receiving water que beneficial uses or otherwise substantially degrees. | uality objectives or degradation of    |
|----|---|--|
|    | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | Less than Significant Impact No Impact |

Discussion/Explanation:

**Less Than Significant Impact:** The Regional Water Quality Control Board has designated water quality objectives for waters of the San Diego Region, as outlined in Chapter 3 of the Water Quality Control Plan (Plan). The water quality objectives are necessary to protect the existing and potential beneficial uses of each hydrologic unit as described in Chapter 2 of the Plan.

The project lies in the La Nacion (909.12) and Jamacha (909.21) hydrologic subarea, within the Sweetwater hydrologic unit. The following are existing and potential beneficial uses for inland surface waters, coastal waters, reservoirs and lakes, and ground water: municipal and domestic supply; agricultural supply; industrial process supply, industrial service supply; contact water recreation; non-contact water recreation; warm freshwater

habitat; cold freshwater habitat; wildlife habitat; preservation of biological habitats of special significance; and rare, threatened, or endangered species habitat.

Potential pollutants that may result from project implementation include sediment and soils that could be released offsite during construction grading activities, trash and debris, potential fuel spillage, and nitrogen and phosphorous from horse manure. The trail is designed to sheet flow runoff toward the proposed BMPs (ie. vegetated buffer strip and gravel gutter) to prevent rills and erosion. Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. Site design measures, including source control BMP's and/or treatment control BMP's will be employed to reduce potential pollutants in runoff.

As part of the proposed project, an erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps. In addition, Best Management Practices (BMPs) will be implemented during construction activities to avoid water quality impacts, polluted runoff, erosion, and sedimentation. BMPs include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls will be used to minimize surface transport of sediments. The construction contractor will be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP). Implementation of BMPs as stated in contract documents and the SWPPP would reduce water quality impacts to below a level of significance.

The proposed project incorporates site design considerations and special treatment control BMPs due to the proximity to the Sweetwater Reservoir. At all locations, the trail will be set back at least 100 feet from the high water mark. In areas along the trail system where the trail tread is between 10 feet and 25 feet from the Urban Runoff Diversion System (URDS), a 12-inch gravel gutter and vegetated buffer strip, with a slope less than 15% sloping towards the reservoir, will be installed along the shoreward edge of the trail. The buffer strip will trap sediment, nutrients, trash, and organics and prevent them from migrating towards the reservoir. Runoff will flow into the gravel gutter and sheet flow onto the vegetated buffer strip. The vegetated buffer strip filters nutrients, trash, pathogens and sediment out of the runoff prior to entering the URDS. In areas where the trail is less than 10 feet from the URDS, a 12-inch gravel gutter and vegetated buffer strip as stated above will apply with the addition of the installation of an impervious landscaping edging as close to the URDS system as possible. The landscape edging prevents runoff from entering the URDS until it has been properly treated, via the vegetated buffer strip.

Surface runoff from the proposed Staging Area 2 located off of Lakeview Avenue would drain toward the nearest downstream surface water, the Sweetwater Reservoir. Materials spilled, deposited, or disposed of at the parking area of Staging Area 2 may be washed into the Sweetwater Reservoir, thereby impacting the quality of the surface water and associated beneficial uses. Petroleum hydrocarbons contained in fuel, oil, grease, lubricants, finishes, and cleansers may be spilled directly onto the parking lot at this staging area when fuel leaks from containers or fuel tanks. Debris and litter can accumulate in parking areas as well. Food and other wastes that are washed into the reservoir may increase algae and other odor causing vegetation. Trash, food, and other wastes may also contribute pathogens to the runoff deposited into the Sweetwater Reservoir. In order to reduce these water quality impacts to the Sweetwater Reservoir, drainage plans and runoff control plans for the staging area will be designed in consultation with the Sweetwater Authority.

Horses will be prohibited from entering the reservoir or any stream within 200 feet of the reservoir shoreline. Chain link fencing will be installed along the perimeter of the trail to prevent entry to the reservoir. The Proposed Rules and Regulations for trail use will require pet owners to pick up after their pets and dispose of any wastes in a proper location on or off-site. Pet waste bags will be provided for owners at staging areas. Signage will also be posted in designated areas as appropriate. Prior to opening the trail to public use, the County will contract with a licensed waste disposal facility to establish a schedule for waste removal. Horse manure will be removed from the trail on a weekly basis by County-contracted personnel. Storage containers will not be necessary as the manure will be removed offsite immediately. The County may also investigate the use of manure in off-site composting operations as a less expensive alternative to the removal of waste to a disposal facility.

Trail inspection and necessary maintenance will be performed by County personnel or volunteers on an as-needed basis to pick up trash and debris, smooth the trail, repair fences, and trim vegetation. Trail brochures and signage, indicating the reservoir is a source of domestic water supply and shall not be polluted, will be provided to educate the public and discourage any type of pollution. Location and distances to staging area trash and restroom facilities, commercial areas, and bus stops will be provided on signs and/or brochures.

The trail will be designed to ensure all runoff sheet flows toward the proposed BMPs. The trail will be periodically re-graded as needed, but a minimum of one time per year at the end of the rainy season, to prevent rills from forming, to promote sheet flow, and to

reduce erosion.

With the implementation of the BMPs described above, water quality impacts to the Sweetwater Reservoir would be reduced to below a level of significance. The proposed project would therefore not cause or contribute to an exceedance of applicable surface or groundwater receiving water quality objectives or degradation of beneficial uses.

| d)   | Substantially deplete groundwater s groundwater recharge such that there was lowering of the local groundwater tab existing nearby wells would drop to a lesuses or planned uses for which permits  | vould<br>ble lev<br>vel wh                          | be a net deficit in aquifer volume or<br>rel (e.g., the production rate of pre-<br>nich would not support existing land  |
|--|---|---|--|
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |   | Less than Significant Impact No Impact   |
| Discus   | ssion/Explanation:  |   |  |
| includi<br>additic<br>ground<br>ground<br>imperv | inpact: The project will not propose the ing construction activities, irrigation, done on, the project does not involve operation dwater recharge including, but not limited dwater basin or diversion or channelizate vious layers, such as concrete lining or other therefore, no impact to groundwater res   | nestic<br>ons that<br>I to, re-<br>ion of<br>culver | or commercial water demands. In<br>at would interfere substantially with<br>egional diversion of water to another<br>a stream course or waterway with<br>ts, for substantial distances (e.g. 1/2 |
| e)   | Substantially alter the existing drainage through the alteration of the course of a result in substantial erosion or siltation of the course of a result in substantial erosion or siltation of the course of a result in substantial erosion or siltation of the course of | strea   | m or river, in a manner which would  |
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |   | Less than Significant Impact No Impact   |

Discussion/Explanation:

Less Than Significant Impact: Construction of the proposed northern trail segments will require drainage crossings over several named and unnamed drainages under the

jurisdiction of the U.S. Army Corps of Engineers (ACOE), California Department of Fish and Game (CDFG), and/or Regional Water Quality Control Board (RWQCB). Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. Grading and construction activities within and adjacent to the existing drainages on site have the potential to cause soil erosion and sedimentation, which may result in increased rates of surface runoff, decreased water quality, and related environmental damage, if appropriate erosion and sedimentation control measures are not implemented. An erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps, to control erosion. Best Management Practices (BMPs) will be implemented during construction activities which include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls shall be used to minimize surface transport of sediments.

Natural drainage patterns will be maintained to the extent practicable during construction activities. The project proposes to utilize the existing trail tread to the fullest extent practicable. The trail will be designed to ensure runoff sheet flows toward proposed BMPs (i.e. vegetated buffer strip and gravel gutter) to prevent rills and erosion. The trail will be periodically re-graded to prevent rills from forming, to promote sheet flow, and to reduce erosion. The re-grading will be on an as-needed basis, but a minimum of one time per year at the end of the rainy season. An effective combination of site control, source control, and treatment control Best Management Practices (BMPs) will be implemented as part of the project.

The project is required to comply with the San Diego County Code of Regulations, Title 8, Zoning and Land Use Regulations, Division 7, Sections 87.414 (DRAINAGE - EROSION PREVENTION) and 87.417 (PLANTING). Compliance with these regulations minimizes the potential for water and wind erosion.

| f) | Substantially alter the existing drainage through the alteration of the course of a the rate or amount of surface runoff in on- or off-site? | strea                   | ım or river, or substantially increase |
|----|--|-------------------------|--|
|    | Potentially Significant Impact   | $\overline{\checkmark}$ | Less than Significant Impact           |
|    | Less Than Significant With Mitigation Incorporated   |                         | No Impact                              |

Less Than Significant Impact: Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. Grading and construction activities within and adjacent to the existing drainages on site have the potential to cause soil erosion and sedimentation, which may result in increased rates of surface runoff, decreased water quality, and related environmental damage, if appropriate erosion and sedimentation control measures are not implemented. Natural drainage patterns will be maintained to the extent practicable during construction activities. An erosion control plan will be implemented with erosion control techniques, including the use of gravel bags, hay bales, and/or the installation of sediment traps, to control erosion. Best Management Practices (BMPs) will be implemented during construction activities which include, but are not limited to, storm drain inlet protection, stabilized construction entrance/exit areas, and silt fencing. Silt fences and fiber rolls shall be used to minimize surface transport of sediments.

The trail will be designed so that all runoff sheet flows toward the selected best management practices (BMPs). The trail will be periodically re-graded as needed, but a minimum of one time per year at the end of the rainy season, to prevent rills from forming, to promote sheet flow, and to reduce erosion. Through implementation of the design considerations and site control, source control, and treatment control BMPs, the project will not significantly increase the amount of runoff that would result in flooding on- or off- site.

| g) | F | Create or contribute runoff water which planned stormwater drainage systems of polluted runoff? |  |
|----|---|---|--|
|    |   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated         | Less than Significant Impact No Impact |

Discussion/Explanation:

**Less Than Significant Impact:** The project does not propose to create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems. The project will require installation of culverts to allow for proper stormwater conveyance under the trail.

Potential pollutants that may result from the trail improvement project and staging areas include sediment and soils released offsite during construction grading activities, trash and debris, potential fuel spillage, and nitrogen and phosphorous from horse manure. Grading will be required for improvements to the trail, including drainage improvements, installation of BMPs, and the abutments for the pedestrian/equestrian bridge in Segment 3. The proposed project includes site design measures, source control and treatment control BMPs to reduce potential pollutants in runoff. These measures are summarized in VIII (a) above and described below.

The proposed project incorporates site design considerations intended to reduce potential pollutants in runoff and minimize impacts to water quality. At all locations, the proposed trail will be set back at least 100 feet from the high water level. Horses will be prohibited from entering the reservoir or any stream within 200 feet of the reservoir shoreline. Chain-link fencing will be installed along the perimeter of the trail to prevent entry to the reservoir. Daily inspections may be necessary before, during, and after rain or storm events to ensure the integrity of the trail system. Manure, trash, litter and debris will be removed in a timely manner prior to a rain or storm event. If necessary, trails will be closed during severe rain events. Temporary signage will be installed at trail heads, staging areas, and/or at the adjacent Sweetwater Summit Regional Park during inclement weather advising users of trail closures.

Proposed Rules and Regulations for trail use include a requirement that pet owners must pick up after pets and dispose of any wastes offsite or in proper locations identified onsite. Signage will be posted in designated areas as appropriate. Pet waste bags will be provided for owners at staging areas. Prior to opening the trail to public use, the County will contract with a licensed waste disposal facility to establish a schedule for waste removal. Horse manure will be removed from the trail on a weekly basis by County-contracted personnel. Storage containers will not be necessary as manure will be removed offsite immediately. The County may also investigate the use of manure in off-site composing operations as a less expensive alternative to the removal of waste to a disposal facility.

Trail inspection and necessary maintenance will be performed by County personnel or volunteers on an as-needed basis to pick up trash and debris, smooth the trail, repair fences, and trip vegetation. Trail brochures and signage, indicating the reservoir is a source of domestic water supply and should not be polluted, will be provided to educate the public and discourage any type of pollution. Location and distances to staging area

trash and restroom facilities, commercial areas, and bus stops will be provided on signs and/or brochures.

In areas along the trail system where the trail tread is between 10 feet and 25 feet from the Urban Runoff Diversion System (URDS), a 12-inch gravel gutter and vegetated buffer strip with a slope less than 15% toward the reservoir, will be installed along the shoreward edge of the trail. The buffer strip will trap sediment, nutrients, trash, and organics, and prevent these materials from migrating toward the reservoir or entering the URDS. Runoff will flow into the gravel gutter and sheet flow onto the vegetated buffer strip. In areas where the trail is less than 10 feet from the URDS, a 12-inch gravel gutter and vegetated strip as stated above will apply with the addition of an impervious landscaping edge as close to the URDS as possible. The landscape edging is designed to prevent runoff from entering the URDS until it has been properly treated via the vegetated buffer strip. Maintenance of the vegetated buffer strips would consist of mowing, irrigation if necessary, weeding, and litter removal. Maintenance of the gravel gutter will consist of an annual inspection and removal of sediment if necessary.

The trail will be designed to ensure runoff sheet flows toward proposed BMPs (i.e. vegetated buffer strip and gravel gutter) to prevent rills and erosion. The trail will be periodically re-graded to prevent rills from forming, to promote sheet flow, and to reduce erosion. The re-grading will be on an as-needed basis, but a minimum of one time per year at the end of the rainy season. The effective combination of site control, source control, and treatment control Best Management Practices (BMPs) described above is intended to protect the quality of water in the reservoir.

| h) | Place housing within a 100-year flood had<br>Hazard Boundary or Flood Insurance Ra<br>nap, including County Floodplain Maps | ate M | • •                                    |
|----|---|-------|--|
|    | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated                                     |       | Less than Significant Impact No Impact |

Discussion/Explanation:

**No Impact:** Drainage swales, which are mapped on a FEMA floodplain map, a County Floodplain Map or have a watershed greater than 25 acres were identified on the project site. The project is not proposing to place housing or structures with a potential for human occupation within these areas, however. In addition, the project will not place

access roads or other improvements in locations that will limit access during flood events or affect downstream properties.

| •                            | redirect flood flows?   | area                    | structures which would impede or                                     |
|------------------------------|---|-------------------------|--|
|                              | Potentially Significant Impact  | $\overline{\checkmark}$ | Less than Significant Impact   |
|                              | Less Than Significant With Mitigation Incorporated  |                         | No Impact  |
| Discus                       | sion/Explanation:   | 4                       |  |
| identifi<br>bridge<br>bridge | Than Significant Impact: The project ed as being 100-year flood hazard are over Spring Valley Creek along the alignwill transverse the 100-year flood plain, e areas. | as. T                   | he project proposes to construct a of the Sweetwater Loop Trail. The |
|                              | Expose people or structures to a signification flooding, including flooding as a result of  |                         |  |
|                              | Potentially Significant Impact  | $\overline{\mathbf{V}}$ | Less than Significant Impact   |
|                              | Less Than Significant With Mitigation Incorporated  |                         | No Impact  |
|                              |   |                         |  |

Less than Significant Impact: The majority of the trail is located upstream of the Sweetwater Dam; however, a small portion of the project does lie within a mapped dam inundation area for a major dam/reservoir within San Diego County, as identified on an inundation map prepared by the dam owner. After review of the inundation map for the Sweetwater Dam, it has been determined that the proposed project will not result in the exposure of people or structures to a significant risk of loss injury, or death involving flooding as a result of failure of the Sweetwater Dam. Adequate emergency response time exists to warn people before the water would reach the site. In addition, the San Diego County of Disaster Preparedness has an established emergency evacuation plan for the area, which will not be impeded or impaired by the project.

August 20, 2008

| k)                                       | Inundatio  | n by seiche, tsunami, or mudflo   | w?                               |   |
|--|--|---|----------------------------------|---|
|  |  | ally Significant Impact<br>nan Significant With Mitigation<br>rated   |                                  | Less than Significant Impact No Impact  |
| Discu                                    | ssion/Expl   | anation:  |                                  |   |
| İ.                                       | SEICHE   |   |                                  |   |
|  | _  | ne project site is not located a not be inundated by a seiche.  | long t                           | he shoreline of a lake or reservoir;  |
| ii.                                      | TSUNAM   | II .  |                                  |   |
|  | =  | inundated in the event of a tsu   |                                  | a mile from the coast and would   |
| lands<br>locate<br>in the<br>that withir | lide susce<br>ed within a<br>event of<br>vill expose<br>a landslic | ptibility zone. The geologic<br>n area of potential or pre-existing<br>seismic activity. In addition, the<br>e soils and the project is not | environg cor<br>le pro<br>locate | project site is not located within a comment of the project area is not additions that could become unstable ject does propose land disturbance downstream from exposed soils not anticipated to expose people or |
| IX.                                      | LAND U   | SE AND PLANNING Would t   | he pro                           | pject:  |
| a)                                       | Physicall  | y divide an established commu   | nity?                            |   |
|  |  | ally Significant Impact<br>nan Significant With Mitigation<br>rated   |                                  | Less than Significant Impact No Impact  |

**No Impact:** The proposed project is intended to establish and formalize the northern portion of the Sweetwater Reservoir Loop Trail. The Sweetwater Reservoir Loop Trail Project is surrounded by developed residential uses to the north and open space parks to the south. The proposed project is consistent with adjacent land uses and would not divide the nearby residential areas or surrounding community. The project does not propose the introduction of new infrastructure such as major roadways, water supply systems, or utilities to the area.

| b) | Conflict with any applicable land use pla<br>jurisdiction over the project (including, b<br>plan, local coastal program, or zoning<br>avoiding or mitigating an environmental | ut not<br>ordin | limited to the general plan, specific nance) adopted for the purpose of |
|----|---|-----------------|---|
|    | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |                 | Less than Significant Impact No Impact                                  |

Discussion/Explanation:

Less Than Significant Impact: The proposed project is consistent with the General Plan/Zoning Map, as well as the goals and policies identified in the General Plan and applicable community plans. The project was developed and designed in correspondence with the County's Community Trail Master Plan. The Master Plan sets forth implementation strategies and design guidelines adopted for the purpose of avoiding and mitigating environmental effects. Furthermore, to procure necessary permits/approvals, the County has coordinated with the appropriate jurisdictions and agencies, including California Department of Fish and Game, US Army Corps of Engineers, US Fish and Wildlife Service, California Department of Health Services, and the Regional Water Quality Control Board. The project, therefore, would not conflict with any land use plan, policy, or regulation of an agency with jurisdiction over the project area.

# X. MINERAL RESOURCES -- Would the project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

| Sweetw<br>COFD-   | vater Loop Trail<br>00251  | - 62 -            |                | August 20, 2008   |  |
|---|--|-------------------|----------------|---|--|
|   | Potentially Significant Impact<br>Less Than Significant With Mitiga<br>Incorporated  |                   |                | Less than Significant Impact No Impact  |  |
| Discuss   | sion/Explanation:  |                   |                |   |  |
| Departr<br>Classifi   | ment of Conservation – Division of   | of Mines<br>Weste | s and<br>ern S | is been classified by the California<br>Geology (Update of Mineral Land<br>an Diego Production-Consumption<br>arce Significance" (MRZ-3). |  |
| space  <br>the pro<br>signification<br>quality,<br>availabi   | The project site is surrounded by land uses including residential, recreational, and open space preserves, which are incompatible to future extraction of mineral resources on the project site. A future mining operation at the project site would likely create a significant impact to neighboring properties including, but not limited to, noise, air quality, and traffic. Implementation of the proposed project will not result in the loss of availability of a known mineral resource that would be of value as the mineral resource has already been lost due to incompatible land uses. |                   |                |   |  |
| ,   | Result in the loss of availability of site delineated on a local general p   | 4000              | •              | portant mineral resource recovery plan or other land use plan?  |  |
|   | Potentially Significant Impact<br>Less Than Significant With Mitiga<br>Incorporated  | ation             |                | Less than Significant Impact No Impact  |  |
| Discuss   | sion/Explanation:  |                   |                |   |  |
| <b>No Impact:</b> The project site is zoned A70 and S80, which are not considered to be an Extractive Use Zone (S-82). The project site does not have an Impact Sensitive Land Use Designation (24) with an Extractive Land Use Overlay (25) (County Land Use Element, 2000). |  |                   |                |   |  |
| <u>XI. I</u>  | NOISE Would the project result   | in:               |                |   |  |
| · •   |  |                   |                | ise levels in excess of standards ordinance, or applicable standards  |  |

August 20, 2008

| Potentially Significant Impact                     | $\checkmark$ | Less than Significant Impact |
|--|--------------|------------------------------|
| Less Than Significant With Mitigation Incorporated |              | No Impact                    |

Discussion/Explanation:

Less Than Significant Impact: Based on a site visit completed by ESU Staff, the surrounding area supports single-family residential land uses to the north and open space parks to the south. Primary users of the trail system would be hikers, bike riders and equestrians. The project will not expose people to potentially significant noise levels that exceed the allowable limits of the County of San Diego General Plan, County of San Diego Noise Ordinance, and other applicable standards as described below.

#### i. County of San Diego General Plan, Noise Element

The County of San Diego General Plan, Noise Element, Policy 4b addresses noise sensitive areas and requires an acoustical study to be prepared for any use that may expose noise sensitive areas to noise in excess of a Community Noise Equivalent Level (CNEL) of 60 decibels (dBA). Moreover, if the project is excess of CNEL 60 dB(A), modifications must be made to the project to reduce noise levels. Noise sensitive areas include residences, hospitals, schools, libraries or similar facilities where quiet is an important attribute. Project implementation is not expected to expose existing or planned noise sensitive areas to road, airport, heliport, railroad, industrial or other noise in excess of the CNEL 60 dB(A). The project will not, therefore, expose people to potentially significant noise levels that exceed the allowable limits of the County of San Diego General Plan, Noise Element.

#### ii. Noise Ordinance – Section 36.404

Non-transportation noise generated by the proposed project is not expected to exceed the standards of the County of San Diego Noise Ordinance (Section 36.404) at or beyond the project's property line. The project's noise levels are not anticipated to impact adjoining properties or exceed County Noise Standards because operation of the project does not involve any noise generating equipment that would exceed applicable noise levels at the adjoining property line.

#### iii. Noise Ordinance – Section 36.410

The project will not generate construction noise that exceeds the standards of the County of San Diego Noise Ordinance (Section 36.410). Construction operations will occur only during permitted hours of operation pursuant to Section 36.410. Also, it is not anticipated that the project will operate construction equipment in excess of 75 dB for more than an 8 hours during a 24-hour period. The construction of the trail is not expected to require extensive construction equipment, as the trail will utilize existing disturbed tread to the maximum extent practicable.

The project's compliance with the County of San Diego General Plan (Noise Element, Policy 4b) and County of San Diego Noise Ordinance (Section 36.404 and 36.410) will ensure that the project will not exceed the local noise standards for noise sensitive land uses and the applicable noise level limits at the property line or during construction. The project will not contribute to a cumulatively considerable exposure of persons or generation of noise levels in excess of standards established in the local general plan, noise ordinance, and applicable standards of other agencies.

| b) | Exposure of persons to or generation of groundborne noise levels?                 | excessive groundborne vibration or     |
|----|---|--|
|    | Potentially Significant Impact Less Than Significant With Mitigation Incorporated | Less than Significant Impact No Impact |

Discussion/Explanation:

**No Impact:** The project does not propose any of the following land uses that can be impacted by groundborne vibration or groundborne noise levels.

- Buildings where low ambient vibration is essential for interior operation, including research and manufacturing facilities with special vibration constraints.
- Residences and buildings where people normally sleep including hotels, hospitals, residences and where low ambient vibration is preferred.

- Civic and institutional land uses including schools, churches, libraries, other institutions, and quiet office where low ambient vibration is preferred.
- Concert halls for symphonies or other special use facilities where low ambient vibration is preferred.

Also, the project does not propose any major, new or expanded infrastructure such as mass transit, highways or major roadways or intensive extractive industry that could generate excessive groundborne vibration or groundborne noise levels on-site or in the surrounding area.

| •  | A substantial permanent increase in ar above levels existing without the project   |                                     | noise levels in the project vicinity  |
|--|--|-------------------------------------|---|
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated  |                                     | Less than Significant Impact No Impact  |
| Discus                                     | sion/Explanation:  |                                     |   |
| project<br>(i.e. hik<br>current<br>substar | Than Significant Impact: Increased not due to increased users on the trail sy king, equestrian riding, and habitat water noise environmental, however. The notial permanent increase in existing amb | stem.<br>ching)<br>projec<br>ient n | The low noise-producing activities would not significantly impact the twould therefore not result in a oise levels in the project vicinity. |
| -  | A substantial temporary or periodic increvicinity above levels existing without the  |                                     |   |
|  | Potentially Significant Impact   | $\checkmark$                        | Less than Significant Impact  |
|  | Less Than Significant With Mitigation Incorporated   |                                     | No Impact   |
| Discus                                     | sion/Explanation:  |                                     |   |

Less Than Significant Impact: The proposed project would result in short-term noise impacts due to the use of mechanized and handheld equipment for construction and maintenance of the project, as well as construction vehicles entering and exiting the project site. Temporary increases in existing ambient noise levels for general

e)

construction noise are expected to be in compliance with the construction noise limits of the County of San Diego Noise Ordinance (Section 36.410), which are derived from State regulation to address human health and quality of life concerns. Construction operations will occur only during permitted hours of operation pursuant to Section 36.410. Also, it is not anticipated that the project will operate construction equipment in excess of 75 dB for more than an 8 hours during a 24-hour period. Although construction activities will result in noise impacts to the surrounding environment, these impacts will be temporary and will cease upon completion of construction and installation of the project. The short-term impact, in combination with existing regulations on hours of operation, will reduce the impacts to below a level of significance.

For a project located within an airport land use plan or where such a plan has

| <b>o</b> ,       | not been adopted, within two miles of a the project expose people residing or noise levels?  | public |  |
|------------------|--|--------|--|
|                  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated  |        | Less than Significant Impact No Impact |
| Discu            | ssion/Explanation:   |        |  |
| Plan (<br>projec | npact: The proposed project is not look CLUP) for airports or within 2 miles of a will therefore not expose people resistive airport-related noise levels. | publi  | c airport or public use airport. The   |
| f)               | For a project within the vicinity of a p<br>people residing or working in the project  |        |  |
|                  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated  |        | Less than Significant Impact No Impact |

**No Impact:** The proposed project is not located within a one-mile vicinity of a private airstrip; therefore, the project will not expose people residing or working in the project area to excessive airport-related noise levels.

# XII. POPULATION AND HOUSING -- Would the project:

| XII.   | POPULATION AND HOUSING Would   | tne p  | project:   |
|--|--|--|--|
| a)   | Induce substantial population growth in proposing new homes and businesse extension of roads or other infrastructure   | es) or   |  |
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated  |  | Less than Significant Impact No Impact   |
| Discus   | ssion/Explanation:   |  |  |
| area b<br>would<br>includi<br>new conver<br>conver<br>Gener<br>water<br>propos | pact: The proposed project will not indicectuse the project does not propose remove a restriction to or indirectly eng, but limited to the following: new or examined or industrial facilities; large-so resion of homes to commercial or multi-fairal Plan amendments, specific plan amendments annexations; or LAFCO annexation across the addition of homes or businesses in in the area. | any processes and processes an | physical or regulatory change that age population growth in an area led infrastructure or public facilities; esidential development; accelerated se; or regulatory changes including ats, zone reclassifications, sewer or In addition, the project does not |
| b)   | Displace substantial numbers of existing of replacement housing elsewhere?   | g hous   | sing, necessitating the construction   |
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated  |  | Less than Significant Impact No Impact   |

4

Discussion/Explanation:

**No Impact:** The project proposes to establish and formalize the northern portion of the Sweetwater Reservoir Loop Trail. The proposed project does not involve displacement of any existing housing.

| c) | Displace substantial n             | umbers of p     | eople, | necessitating | the     | construction | of |
|----|------------------------------------|-----------------|--------|---------------|---------|--------------|----|
|    | replacement housing els            | sewhere?        |        |               |         |              |    |
|    | Potentially Significant            | •               |        | Less than Sig | gnifica | ant Impact   |    |
|    | Less Than Significant Incorporated | With Mitigation | n 🗹    | No Impact     |         |              |    |
|    | '                                  |                 |        | <u> </u>      | 4       |              |    |

Discussion/Explanation:

**No Impact:** The proposed project does not involve displacement of a substantial number of people as the site is currently vacant.

#### XIII. PUBLIC SERVICES

- a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance service ratios, response times or other performance objectives for any of the public services:
  - i. Fire protection?
  - ii. Police protection?
  - iii. Schools?
  - iv. Parks?
  - v. Other public facilities?

| Potentially Significant Impact                     |                         | Less than Significant Impact |
|--|-------------------------|------------------------------|
| Less Than Significant With Mitigation Incorporated | $\overline{\checkmark}$ | No Impact                    |

**No Impact:** The project proposes to improve and formalize the northern portion of the Sweetwater Reservoir Loop Trail, a portion of which is located on Sweetwater Authority property. The proposed project will connect to the existing southern portion so as to eventually allow non-motorized recreational opportunities completely around the Sweetwater Reservoir, a 14.1-mile loop trail. The project does not involve the construction of new or physically altered governmental facilities including, but not limited to, fire protection facilities, police facilities, schools, or parks, in order to maintain acceptable service ratios, response times or other performance service ratios or objectives for any public services. The project will therefore not have an adverse physical effect on the environment as the project does not require the provision of new or significantly altered services or facilities.

Would the project increase the use of existing neighborhood and regional parks

#### XIV. RECREATION

a)

|   | or other recreational facilities such that facility would occur or be accelerated?      | subs | tantial physical deterioration of the  |  |
|---|---|------|--|--|
|   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |      | Less than Significant Impact No Impact |  |
| Discussion/Explanation:   |   |      |  |  |
| Less Than Significant Impact: The project is to improve and formalize and existing trail system surrounding the Sweetwater Reservoir, including a connection to existing trails to the west. The project is not expected to result in increased use of existing neighborhood and regional parks and other recreational facilities such that substantial deterioration of existing facilities would occur or be accelerated. |   |      |  |  |
| b) Does the project include recreational facilities or require the construction of<br>expansion of recreational facilities, which might have an adverse physical effec-<br>on the environment?  |   |      |  |  |
|   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |      | Less than Significant Impact No Impact |  |

Less Than Significant With Mitigation Incorporated: The project involves new and/or expanded recreational facilities. The project proposes to establish and formalize the northern portion of the Sweetwater Reservoir Loop Trail. The proposed project will connect to the existing southern portion of the trail system so as to eventually allow for non-motorized recreational opportunities completely around the Sweetwater Reservoir, a 14.1-mile loop trail. As described in this Environmental Initial Study, the new and/or expanded facilities will not result in a significant adverse physical effect on the environment with mitigation measures implemented for biological resources, cultural resources, and water quality.

### XV. TRANSPORTATION/TRAFFIC -- Would the project:

| a) | Cause an increase in traffic which is subs         | tantial in relation to the existing traffic |
|----|--|---|
|    | load and capacity of the street system (i          | e., result in a substantial increase in     |
|    | either the number of vehicle trips, the v          | olume to capacity ratio on roads, or        |
|    | congestion at intersections)?                      |   |
|    | Potentially Significant Impact                     | Less than Significant Impact                |
|    | Less Than Significant With Mitigation Incorporated | No Impact                                   |
|    |  |   |

Discussion/Explanation:

Less Than Significant Impact: The proposed project would result in a short-term increase in traffic during construction activities due to construction vehicles entering and exiting the project site. Increased daily trips during project construction is anticipated to result in less than significant impacts to existing traffic on adjacent roadways. In addition, implementation of the project may result in increased traffic to and from the project site due to increased use of the loop trail system and associated recreational facilities. The limited number of increased vehicle trips anticipated is not expected to cause a significant increase in traffic in relation to existing traffic loads, vehicle trips or volume to capacity ratio on roads. The short-term, periodic traffic resulting from construction activities and any increased traffic from use of the loop trail system is not expected to exceed the level of service (LOS) standards established by the County of San Diego for the circulation elements roads in the surrounding area. Impacts are considered less than significant.

The project proposes to establish and formalize the northern portion of the Sweetwater Reservoir Loop Trail and connect it to existing trails to the west. The proposed project will connect to the existing southern portion so as to allow non-motorized recreational opportunities completely around the Sweetwater Reservoir, a 14.1-mile loop trail. The increased trail connections would provide nearby residents with expanded access to the trail system from other trails in the area, thereby increasing non-vehicular mobility and potentially reducing congestion and vehicle trips.

| b) Exceed, either individually or cumulatively, a level of service standard established by the County congestion management agency and/or as identified by the County of San Diego Transportation Impact Fee Program for designation or highways?   | ied |  |  |  |
|---|-----|--|--|--|
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated  Less than Significant Impact No Impact   |     |  |  |  |
| Discussion/Explanation:   |     |  |  |  |
| <b>No Impact</b> : The project does not propose to generate a significant increase in average daily trips (ADTs) or exceed, either individually or cumulatively, the level of service (LOS) standards established by the County of San Diego. The short-term, periodic traffic resulting from construction activities and any increased traffic from use of the loop trail system are considered less than significant. |     |  |  |  |
| c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?   |     |  |  |  |
| Potentially Significant Impact Less Than Significant With Mitigation Incorporated  Less than Significant Impact No Impact   |     |  |  |  |
| Discussion/Explanation:   |     |  |  |  |

**No Impact:** The proposed project is located outside of an Airport Influence Area and is not located within two miles of a public or public use airport; therefore, the project will not result in a change in air traffic patterns.

August 20, 2008

| d)   | Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? |  |  |  |
|--|---|--|--|--|
|  | Potentially Significant Impact  | Less than Significant Impact           |  |  |
|  | Less Than Significant With Mitigation  Incorporated   | No Impact                              |  |  |
| Discus   | ssion/Explanation:  |  |  |  |
| Less than Significant: Increased daily trips during project construction is anticipated to result in less than significant impacts to existing traffic volume on adjacent roadways; however, project construction could result in short-term impacts to circulation and temporary traffic-related hazards. A traffic control plan would be implemented as part of the project to manage traffic and circulation impacts associated with the proposed project during construction and maintenance activities, and to ensure that vehicular traffic and pedestrian/bicycle/equestrian traffic flows smoothly. The traffic control plan will include available access options, parking and construction staging areas, and construction phasing considerations. |   |  |  |  |
| Long-term operation of the proposed trail system will not alter traffic patterns on adjacent roadways and will improve the internal circulation around Sweetwater Reservoir. The increased trail connections would provide nearby residents with expanded access to the trail system from other trails in the area, thereby increasing non-vehicular mobility and potentially reducing congestion and vehicle trips that result in related hazards.  |   |  |  |  |
| The portion of Segment 4 utilizing the San Diego County Water Authority easement road nearest to Sweetwater Dam contains a sharp curve; however, trail design will include widening the trail tread to 16 feet, posting cautionary signage, and/or placing convex mirrors as needed to preclude potential hazards. Maintenance and trail traffic will be physically separated to minimize potential conflicts and hazards.   |   |  |  |  |
| e)   | Result in inadequate emergency access?  |  |  |  |
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | Less than Significant Impact No Impact |  |  |

f)

Less Than Significant Impact: The traffic control plan for the project will include provisions for the control of trail user traffic to provide adequate safety for Sweetwater staff, contractors, emergency vehicles, and trail users. At Sweetwater Gate 120, off Jamacha Boulevard across from Whitestone Road, the installation of "No Parking, Tow Away Zone" signs and additional signage indicating the staging area location on Lakeview Avenue, will minimize potential conflicts with emergency access. The proposed project will not result in inadequate emergency access. In addition, the project is not served by a dead-end road that exceeds the maximum cumulative length permitted by the Consolidated Fire Code for the 17 Fire Protection Districts in San Diego County. Impacts are considered less than significant.

Result in inadequate parking capacity?

| ,   |   |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
|   | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   |  | Less than Significant Impact No Impact |  |  |  |  |
| Discuss   | sion/Explanation:   |  |  |  |  |  |  |
| parking<br>Bonita<br>Road ir<br>Whitest<br>users. S<br>Avenue | Less Than Significant Impact: As part of the proposed project, adequate public parking will be provided at Staging Area 1 at Sweetwater Summit Regional Park in Bonita and at Staging Area 2 near the intersection of Lakeview Avenue and Quarry Road in Spring Valley. At Sweetwater Gate 120, off Jamacha Boulevard across from Whitestone Road, there is an open area that could attract unauthorized parking by trail users. Signage will be installed indicating the location of the staging area on Lakeview Avenue and "No Parking, Tow Away Zone" signs will be installed at all unauthorized parking areas to minimize unauthorized parking. |  |  |  |  |  |  |
| •   | Conflict with adopted policies, plans ransportation (e.g., bus turnouts, bicycle  |  |  |  |  |  |  |
|   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |  | Less than Significant Impact No Impact |  |  |  |  |

**No Impact:** The project proposes is intended to establish and formalize a recreational opportunity around the Sweetwater Reservoir for hikers, bikers, and equestrian users. The proposed project will connect to the existing southern portion of the loop trial system so as to eventually allow for non-motorized, recreational opportunities completely around the Sweetwater Reservoir, a 14.1-mile loop trail. No feature of the proposed project would result in a conflict with adopted policies, plans or programs supporting alternative transportation.

# XVI. UTILITIES AND SERVICE SYSTEMS -- Would the project:

| a) | Exceed wastewater treatment requirements                             | of the applicable Regional Water       |
|----|--|--|
|    | Quality Control Board?   |  |
|    | Potentially Significant Impact Less Than Significant With Mitigation | Less than Significant Impact No Impact |
|    | Incorporated   |  |

Discussion/Explanation:

Less Than Significant Impact: Wastewater treatment in the surrounding area is provided by the Metropolitan Wastewater District of Southern California, which operates its facility in accordance with the applicable wastewater treatment requirements of the Regional Water Quality Control Board (RWQCB). The primary sources of pollutants to storm water from the proposed project are construction activities and runoff from parking lots. Due to the project's proximity to the Sweetwater Reservoir, implementation of effective BMPs is necessary to protect water quality of this adjacent water body. Required permits for the proposed project include 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB). The County will obtain all required permits prior to initiation of construction of the project.

As part of the proposed project, Staging Area 2 will require the installation of facilities to include bathroom and drinking water facilities. Additional facilities will also be incorporated at staging areas to provide amenities to hikers, bikers, and equestrian users. Treatment of any wastewater from these staging area amenities is anticipated to

be routine and is not expected to exceed the wastewater treatment requirements of the RWQCB.

| b)                              | Require or result in the construction of n facilities or expansion of existing facilities, the significant environmental effects?   |  |
|---------------------------------|---|--|
|                                 | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | Less than Significant Impact No Impact   |
| Discu                           | ssion/Explanation:  |  |
| or expand results of new theref | Than Significant Impact: The project does banded water or wastewater treatment facilities accreational amenities at staging areas are not or expansion of existing water or wastewater or not cause significant environmental effection of such facilities. | es. The proposed trail improvements expected to require the construction or treatment facilities. The project will |
| c)                              | Require or result in the construction of new expansion of existing facilities, the construct environmental effects?   | _  |
| ✓                               | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | Less than Significant Impact No Impact   |

Discussion/Explanation:

**Less Than Significant With Mitigation Incorporated:** As part of the proposed project, the following new or expanded drainage facilities will be constructed and installed:

**Segment 1:** Drainage improvements required for Segment 1 include installation of 18" and 24" corrugated metal pipe (CMP) culverts that will convey drainage from the trail and adjacent properties into a proposed 18" reinforced concrete pipe (RCP) stormdrain. The stormdrain will replace an existing wooden "trough"

in order to properly convey stormwater during rain events and runoff from Sweetwater Road.

**Segment 1a:** Drainage improvements required for Segment 1a include installation of an 8" RCP culvert under the trail, associated head wall, catch basin and rip rap energy dissipater in order to convey nuisance flow from the adjacent homes to the south.

**Segment 4:** Near the southern portion of Segment 4, an 18" RCP drainage pipe, wing walls at the inlet and outlet, as well as a rip rap energy dissipater will be constructed to convey water in this section under the trail. The trail itself will be constructed as a raised causeway approximately 650 feet in length.

**Segment 5:** Drainage facilities to be constructed as part of Segment 5 include an 18" RCP culvert under the trail, associated wing walls, and a drainage ditch along the south side of the trail located approximately 300 feet east of the intersection of Segment 3 and Segment 5. The drainage ditch will convey water on the south side of the trail toward the new culvert.

**Segment 6:** Drainage improvements for Segment 6 will consist of installation of two crossings traversing areas of disturbed freshwater marsh. The crossings will require the installation of culverts under the trail to allow for proper stormwater conveyance.

**Segment 7:** Drainage improvements for Segment 7 will include installation of one crossing. The crossing will require installation of a culvert under the trail for proper water conveyance.

**Segment 8:** Drainage improvements for Segment 8 will consist of installation/improvement of two crossings across areas of disturbed freshwater marsh. One crossing will require installation of a culvert under the trail to allow for proper stormwater conveyance. The second crossing will be the extension of an existing culvert.

Construction of the proposed northern trail segments will require drainage crossings over several named and unnamed drainages under the jurisdiction of the U.S. Army Corps of Engineers (ACOE), California Department of Fish and Game (CDFG), and/or Regional Water Quality Control Board (RWQCB). The proposed project would result in direct and indirect impacts to biological resources within and adjacent to the project

area. Direct impacts would result as a result of habitat removal for widening of existing paths for the trail segments and drainage crossings. As described in Section IV, Biological Resources, design features and mitigation measures are incorporated in the proposed project and will be implemented to avoid and minimize impacts to biological resources. The County will obtain all required permits to address temporary and permanent impacts to jurisdictional resources. Required permits include a 1602 Streambed Alteration Agreement from CDFG, a 404 Nationwide Permit from the ACOE, and a 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB). In addition, the project would require approval of a General Construction Storm Water Permit from the RWQCB.

After implementation of required mitigation and approval of required permits, the project's impacts resulting from new and/or expanded storm water drainage facilities will be reduced to below a level of significance.

| •   | Have sufficient water supplies availab entitlements and resources, or are new o   |                                 |   |
|---|---|---------------------------------|---|
|   | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   |                                 | Less than Significant Impact No Impact  |
| Discuss   | sion/Explanation:   |                                 |   |
| required<br>required<br>be provi<br>Souther<br>Sufficie | than Significant Impact: As part of the d for drinking facilities at the proposed state to serve other staging area amenities sayided by the Sweetwater Authority untra California (MWD), which provides ent water supplies to serve the minimal of entitlements and resources. | taging<br>such<br>ider t<br>dom | g areas. Water supplies will also be<br>as bathroom facilities. Water would<br>the Metropolitan Water District of<br>estic water service to the area. |
| r   | Result in a determination by the wasteward serve the project, that it has addition to the provi   | equat                           | te capacity to serve the project's  |
|   | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated   |                                 | Less than Significant Impact No Impact  |

Less Than Significant Impact: The project does not include the construction of new or expanded water or wastewater treatment facilities. The proposed trail improvements and recreational amenities at staging areas are not expected to require the construction of new or expansion of existing water or wastewater treatment facilities. The project is therefore not expected to interfere with any wastewater treatment provider's service capacity.

| •  | Be served by a landfill with sufficient project's solid waste disposal needs?  | permi   | tted capacity to accommodate the  |
|--|--|---|---|
|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated  |   | Less than Significant Impact No Impact  |
| Discus   | sion/Explanation:  |   |   |
| from th<br>solid w<br>San Did<br>Agency<br>Integra<br>Resour<br>Division<br>active I | Than Significant Impact: Implementation of use of amenities and recreational factorists asteroical facilities, including landfills, require ego County, the County Department of By issues solid waster facility permits attend Waster Management Board (CIW) roces Code (Sections 44001-44018) and in 2, Subdivision 1, Chapter 4 (Section 2) landfills in San Diego County with remaining apacity is expected to accommodate the | silities<br>solid<br>Enviro<br>with<br>MB)<br>Califo<br>21440<br>nining | at the proposed staging areas. All waste facility permits to operate. In primental Health, Local Enforcement concurrence from the California under the authority of the Public ornia Code of Regulations Title 27 Det seq.). There are five, permitted capacity. Sufficient permitted solic |
|  | Comply with federal, state, and local swaste?  | statute   | es and regulations related to solic   |
|  | Potentially Significant Impact Less Than Significant With Mitigation Incorporated  |   | Less than Significant Impact No Impact  |

**Less than Significant Impact:** The project will deposit all solid waste at a permitted solid waste facility and therefore will comply with Federal, State, and local statutes and regulations related to solid waste.

# XVII. MANDATORY FINDINGS OF SIGNIFICANCE:

| a)       | substantially reduce the habitat of a find wildlife population to drop below self-splant or animal community, substantially | degrade the quality of the environment, fish or wildlife species, cause a fish or sustaining levels, threaten to eliminate a y reduce the number or restrict the range of or eliminate important examples of the enistory? |
|----------|---|--|
| <b>□</b> | Potentially Significant Impact Less Than Significant With Mitigation Incorporated   | Less than Significant Impact No Impact   |

Discussion/Explanation:

Less Than Significant With Mitigation Incorporated: Based on the environmental evaluation and discussion contained in this Environmental Initial Study, the proposed project would potentially degrade the quality of the environment and result in significant impacts to the following areas without mitigation incorporated: biological resources, cultural resources, hydrology and water quality, recreation, transportation/traffic, and utilities and service systems. In addition to project specific impacts, this environmental evaluation considered the projects potential for significant cumulative effects. Mitigation measures have been incorporated into the project to reduce impacts in these areas to below a level of significance.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

|  | Potentially Significant Impact<br>Less Than Significant With Mitigation<br>Incorporated |  | Less than Significant Impact<br>No Impact |
|--|---|--|---|
|--|---|--|---|

The following list of past, present and future projects were considered and evaluated as a part of this Environmental Initial Study:

| PROJECT NAME                               | PERMIT/MAP NUMBER |
|--|-------------------|
| Sweetwater Valley Sewer Outfall Suspension | UJ2116            |
| Bridge                                     |                   |
| Carriage Hills Tentative Map               | TM 5355           |
| SR 125 Construction Project                | Unknown           |
| Perdue water treatment plant master plan   | Unknown           |

Per the instructions for evaluating environmental impacts in this Initial Study, the potential for adverse cumulative effects were considered in the response to each question in sections I through XVI of this Environmental Initial Study. In addition to project specific impacts, this evaluation considered the projects potential for incremental effects that are cumulatively considerable. As a result of this evaluation, there were determined to be potentially significant cumulative effects related to biological resources, water quality, and recreational facilities. Mitigation measures have been incorporated to reduce these cumulative effects to below a level of significance. Refer to Sections IV(a-c), VIII(a), and XIV(b) for a discussion of mitigation associate with impacts to those resources. As a result of this evaluation, there is no substantial evidence that, after mitigation, there are cumulative effects associated with this project.

| c) | es the presented                                   |                     |  |  |  |     |        |        |           | cause | substant | ial |
|----|--|---------------------|--|--|--|-----|--------|--------|-----------|-------|----------|-----|
|    |  | ially Significant I |  |  |  | Les | s than | Signi  | ficant Ir | npact |          |     |
|    | Less Than Significant With Mitigation Incorporated |                     |  |  |  | Ц   | No     | Impact |           |       |          |     |

In the evaluation of environmental impacts in this Environmental Initial Study, the potential for adverse direct or indirect impacts to human beings were considered in the response to certain questions in Sections I (Aesthetics), III (Air Quality), VI (Geology and Soils), VII (Hazards and Hazardous Materials), VIII (Hydrology and Water Quality) XI (Noise), XII (Population and Housing), and XV (Transportation and Traffic). As a result of this evaluation, it was determined that there are potentially significant effects to human beings related to the following: biological resources, water quality, recreation, to reduce these effects to below a level of significance. Refer to the appropriate sections of this Environmental Initial Study for a discussion of mitigation measures associate with impacts to those resources. As a result of this evaluation, there is no substantial evidence that, after mitigation, there are adverse effects to human beings associated with this project.

# XVIII. REFERENCES USED IN THE COMPLETION OF THE INITIAL STUDY CHECKLIST

All references to Federal, State and local regulations are available on the Internet. For Federal regulation refer to <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a>. For State regulations, refer to <a href="http://www.amlegal.com">www.amlegal.com</a>. All other references are available upon request.

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